

2017 NEEDS ASSESSMENT

WV INFRASTRUCTURE AND JOBS DEVELOPMENT COUNCIL

DECEMBER 2017

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WV INFRASTRUCTURE AND JOBS DEVELOPMENT COUNCIL

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|--|--------------------------------|

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|-------------------|---|---|---|---|
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INTRODUCTION

The West Virginia Infrastructure and Jobs Development Council was established in 1994 under the West Virginia Infrastructure and Jobs Development Act, Chapter 31-15A of the West Virginia Code. The Council is a governmental instrumentality of the State. Its primary role is to evaluate requests from project sponsors seeking to plan, acquire, design, and construct water, sewer, and economic development projects within the State and to approve funding for those projects.

This assessment was conducted pursuant to the requirements contained in Chapter 31-15A-6(b) of the WV Code:

- 1) The Council is required to develop a comprehensive Statewide inventory of water supply systems and sewage treatment systems and an assessment of current and future needs;
- 2) The assessment identifies the areas of the State which do not have adequate public water or sewage systems;
- 3) Offers recommendations for the construction of new facilities or the extension or expansion of existing facilities to meet the identified needs;
- 4) It includes an identification of the obstacles, issues and problems which prevent or inhibit development of adequate infrastructure throughout the State, including financial, governmental, physical, or geographical factors and make recommendations that the Council considers appropriate regarding the obstacles, issues or problems identified; and
- 5) The comprehensive inventory and assessment shall be updated at least once in every three-year period beginning in 1996.

In 2011 the Council, in conjunction with the West Virginia Water Development Authority, implemented a statewide Geographic Information System (GIS) to achieve the following goals related to water and sewer infrastructure:

- Establish a database for existing water and sewer facilities, general locations, and service areas;
- Provide a means to continually update the database as new facilities are proposed and constructed;
- Provide an electronic tracking mechanism for funding applications and project status; and
- Provide the Council with situational awareness to support its decision-making process.

This assessment relies heavily on the data acquired from the GIS system in its inventory of existing water and sewer systems.

Data relied upon in this report is current as of December 31, 2017.

EXECUTIVE SUMMARY

Use of the GIS database

In conjunction with its GIS implementation, the Council collected location data on all known existing public (government and privately owned) water and sewer systems within the State. This data includes the location of treatment facilities, as well as the general locations of water distribution and sewer collection lines. The water distribution and sewer collection lines data is available to the public via the Council's website at www.wvinfrastructure.com. Although the GIS data provides the State with the most accurate information obtained to-date, the following limitations must be noted for purposes of this assessment:

- 1) The GIS relies on the location of known structures (addressable structures which are updated periodically, at least every three years) to approximate the served and unserved population. Therefore, the accuracy may be impacted by structures that are uninhabited, removed or built between updates;
- 2) In establishing the locations of existing water and sewer lines, the GIS relies on records obtained from utilities who own and/or operate those facilities. In some areas, data gaps remain because of missing, unreliable, or unavailable utility records;
- 3) The data provides the location of existing water and sewer lines generally. It does not provide a resolution of detail required to conduct design analysis, i.e., locate manholes, valves, pump stations, pipe sizes, storage tanks, or hydraulic information;
- 4) The Council updates the existing inventory database whenever a project application is filed by requiring Project Sponsors to provide preliminary maps of the project, and the public IJDC website portal is updated to show the project location (blue spigot for water and red outfall for sewer). By clicking on the project, the public can find out the project description, estimated cost, funding scenario, number of new customers served, and project team members by company name and telephone number. However, not all water and sewer projects are required to be filed with the Council and therefore many projects may not be added to the database during the Council's application approval process. The Council is workings with others to obtain this GIS information for water and sewer systems in order to be able to provide a more complete database.

Served and Unserved Areas

Public water systems - approximately 62% of the State's structures are served by a public water system. The number of customers served by public water utilities in West Virginia is approximately 652,228.

Public sewer systems – approximately 46% of the State's structures are served by a public sewer system. The number of customers served by public sewer utilities in West Virginia is approximately 449,449.

The unserved areas within the State vary considerably between Counties. Appendix F provides a summary of served and unserved structures within the State, while GIS data is provided graphically in Appendix G.

Current/Future Needs

Current funding needs for water and sewer infrastructure based on applications filed with, and approved by, the Council are approximately \$296M for water projects and \$395M for sewer projects. In addition, based on the list of Long-Term Control Plans (LTCPs) filed with WVDEP as of 12/31/17, the requirement to satisfy the State's Combined Sewer Overflows (CSOs) need exceeds \$1.6 Billion. Since many of the LTCPs involve construction of sanitary sewers which qualify for Council funding, and the combined sewers then become stormwater sewers, the estimate is over \$1.0 Billion to satisfy CSOs need.

Projected future needs assume a goal of serving every customer in the State. Based on assumptions made, the cost of providing water service to every remaining unserved household in the State is approximately \$2.3 Billion. For sewer service, the estimate is approximately \$10.7 Billion. If rehabilitation work is considered in the estimate, the need may be approaching approximately \$17 Billion.

EXISTING SYSTEM INVENTORIES

Public Water Utilities

A list of existing water systems and the customers served by each are provided in Appendix A. In total, there are 326 public water utilities operating in the State serving approximately 652,228 customers.

In terms of structures, the number of structures within the State that have water service available is approximately 610,742.

Public Sewer Utilities

A list of existing sewer systems and the customers served by each are provided in Appendix B. In total, there are 293 public sewer utilities operating in the State serving approximately 449,449 customers.

The number of structures within the State that have sewer service available is approximately 450,748.

The following table provides a summary of existing systems (utilities) throughout the State:

| | WATER | SEWER |
|---------------------------------|---------|---------|
| Existing utilities ¹ | 326 | 293 |
| Customers served ¹ | 652,228 | 449,449 |
| Served structures | 610,742 | 450,748 |
| Unserved structures | 366,142 | 526,136 |
| Percent structures served | 62% | 46% |

Also provided in Appendix F is a listing of served and unserved structures in the State, organized by the following geographical and political boundaries:

- x County
- x Congressional Districts
- x Regional Planning and Development Council Areas
- x Senatorial Districts
- x House Districts

ASSESSMENT OF CURRENT NEEDS

Public Water Systems

Current applications

A list of water project applications received as of 12/31/17 is provided in Appendix C. This includes all preliminary applications approved by the Council as technically feasible, but without committed funding as of 12/31/17. The total estimated costs of these projects exceed \$302M, where approximately \$6M has been committed from other funding sources. The total estimate of current needs for water systems; therefore, is approximately \$296M.

Public Sewer Systems

Current applications

A list of sewer project applications approved as of 12/31/17 is provided in Appendix D. This includes all preliminary applications approved by the Council as technically feasible, but without committed funding as of 12/31/17. The total estimated cost of these projects exceed \$398M, where approximately \$3M has been committed from other funding sources. The total estimate of current needs for sewer projects; therefore, is approximately \$395M.

Combined Sewer Overflow Communities

Combined Sewer Overflows (CSOs)²

Based on the list of Long-Term Control Plans filed with WVDEP as of 12/31/17, the requirement to satisfy CSOs need exceeds \$1.0 Billion. Although the LTCPs currently estimate the cost to meet State requirements at \$1.6 Billion, only sanitary sewers qualify for Council funding. Since stormwater sewers do not qualify for Council funding, a portion of the improvements needed will not involve the construction of sanitary sewers and the combined sewers becoming stormwater sewers. Therefore, since many of the LTCPs involve the construction of sanitary sewers and the combined sewers becoming stormwater sewers, the estimate is over \$1.0 Billion to satisfy CSOs need. Below is a list of CSO communities and their estimated total needs for compliance. Communities listed without an estimate did not have an approved LTCP filed with the DEP or did not have a cost listed in their LTCP.

| UTILITY | ESTIMATED NEED (\$) |
|---------------------|---------------------|
| Barrackville | 5,743,960 |
| Beckley | 10,000,000 |
| Belington | 6,551,377 |
| Benwood | 6,756,200 |
| Bethany | - |
| Boone Co PSD | 1,500,000 |
| Bridgeport | 6,900,000 |
| Buckhannon | 3,786,876 |
| Cameron | 1,887,400 |
| Cedar Grove | 6,000,000 |
| Charleston | 256,318,000 |
| Clarksburg | 55,020,000 |
| Davis | - |
| Dunbar | 35,000,000 |
| Elkins | 23,252,000 |
| Fairmont | - |
| Farmington | 3,287,500 |
| Fayetteville | - |
| Flatwoods-Canoe Run | 33,000,000 |
| Follansbee | 6,306,915 |
| Grafton | 4,500,000 |
| Greater Paw Paw PSD | 11,493,800 |
| Hinton | 7,513,250 |
| Huntington | 584,617,186 |
| Kenova | 1,710,948 |
| Keyser | 9,882,000 |
| Kingwood | 13,000,000 |
| Logan | 77,000,000 |
| Marlinton | 2,100,000 |
| Marmet | 1,812,594 |
| Martinsburg | - |
| McMechen | 3,379,000 |
| Monongah | 6,356,007 |
| Montgomery | 2,068,000 |
| Moorefield | - |
| Morgantown | 172,990,000 |
| Moundsville | 9,770,400 |
| Mullens | 465,000 |
| New Martinsville | 58,223,836 |
| Nutter Fort | - |
| Nitro | 16,592,538 |
| Parsons | 1,275,000 |
| | , -,,, |

| Philippi | 14,920,800 |
|----------------------|-----------------|
| Piedmont | - |
| Point Pleasant | 5,000,000 |
| Princeton | 6,500,000 |
| Richwood | 8,691,000 |
| St. Albans | 107,726 |
| Shinnston | 2,139,775 |
| Sistersville | 11,952,000 |
| Smithers | 1,400,000 |
| Thomas | 4,799,950 |
| Wayne | 740,000 |
| Welch | 22,691,961 |
| Wellsburg | 8,399,400 |
| West Union | 2,865,700 |
| Weston | 3,634,531 |
| Westover | 1,940,000 |
| Wheeling | 80,000,000 |
| | |
| TOTAL ESTIMATED COST | \$1,621,842,630 |

Summary of Current Needs

Current funding needs for water and sewer infrastructure based on applications filed with, and approved by the Council, are approximately \$296M for water projects and \$395M for sewer projects. In addition, based on the list of Long-Term Control Plans filed with WVDEP as of 12/31/17, the requirement to satisfy the State's Combined Sewer Overflows (CSOs) need exceeds \$1.0 Billion.

FUTURE NEEDS

Definition

For purposes of this assessment, "future needs" are an estimate of the costs needed to serve the remaining unserved households/prospective customers of the State.

Methodology

In the absence of large preliminary studies with an enormous scope of work, placing a dollar cost on future needs is highly speculative and requires several assumptions, mainly relating to the following:

- x Average cost of serving each household/prospective customer
- x The number of unserved households/prospective customers
- x The manner in which each household/prospective customer would be served

The average cost of serving each household/prospective customer assumes that the remaining unserved households/prospective customers would be provided service through a typical line extension. It does not necessarily take into account the addition of treatment or storage requirements on a per customer basis, which differs greatly for each locale and therefore is not easily estimated on such a broad scale. It also does not take into account alternate methods for providing service, such as decentralized systems.

For water service, a cost per customer of \$26,250 is assumed (\$25,000 assumed in 2013 x CPI³). For sewer service, a cost per customer of \$36,750 is assumed (\$35,000 assumed in 2013 x CPI³).

Finally, the number of unserved households/prospective customers must be estimated. This assessment uses the difference between the number of households based on US Census data, and the number of customers served based on statistical data filed with the PSC. It should also be noted that a strict count of utility customers will also include non-residential entities, such as businesses, industries, etc. and this must be considered when attempting to estimate the number of unserved households/prospective customers.

Since a significant portion of current applications are for rehabilitation or contain rehabilitation work, it can be assumed that future needs may be understated by as much as \$4 Billion. Therefore, if rehabilitation work is considered in the estimate, the need may be approaching approximately \$17 Billion (\$2.3 Billion plus \$10.7 Billion from table below plus 4 Billion).

COST TO SERVE EVERY HOUSEHOLD/PROSPECTIVE CUSTOMER

| | WATER | SEWER |
|-----------------------------------|---------------|----------------|
| Number of Households ⁴ | 740,890 | 740,890 |
| Customers served ¹ | 652,228 | 449,449 |
| Difference (unserved) | 88,662 | 291,441 |
| Avg. cost per customer to serve | \$26,250 | \$36,750 |
| Overall need | \$2.3 Billion | \$10.7 Billion |

OBSTACLES, ISSUES AND PROBLEMS

FINANCIAL CONCERNS

Available Funding Levels

The current status of funding sources is summarized below:

- The EPA State Revolving Fund (SRF) programs are largely driven by Congressional budgeting and funding for both the Clean Water State Revolving Fund (CWSRF) and Drinking Water Treatment Revolving Fund (DWTRF), and funding for these programs has been relatively stable the last few years. However, there is no guarantee that will continue. In addition to the federally allocated funds and the state match provided by the IJDC, both programs receive payments of principal and interest that are used to fund projects. The CWSRF receives approximately \$33 million annually from this funding stream. The DWSRF program receives \$15 Million annually for projects from repayments.
- The Community Development Block Grant (CDBG) program was allocated \$12,288,766 for FY2017. FY2018 funding is unknown at the present time and will remain unknown until Congress passes an appropriations bill or a revised budget.
- The Appalachian Regional Commission (ARC) is estimating approximately \$5 Million will be available for FY2018 grant awards as a "best-case" scenario.
- The Abandoned Mines Lands and Reclamation (WVDEP-AML) Waterlines Program budget for Calendar Year 2018 is estimated to be approximately \$19 Million available for waterline construction. The \$19 Million budgeted amount includes unspent AML Waterlines grant funds carried over from previous grant years. AML anticipates that in future years, unspent waterlines grant funds will not be carried forward, but will instead be redirected to AML Reclamation projects. Current Federal legislation mandates that the coal tax and resultant federal funds will end in 2021, and additional AML Waterlines Program funds may not be available after that time.
- The US Department of Agriculture Rural Utility Services (USDA-RUS) anticipates having the same allocation for FY2018 as in FY2017, which was approximately \$17,260,000 for loans and \$5,528,000 for grants.
- WV Infrastructure & Jobs Development Council (Council) During the 2017 Legislative Session, the Enrolled Senate Bill 1013 passed on June 16, 2017 which restored the cuts to the Infrastructure Fund from excess lottery revenues to a maximum of \$40 Million which will be utilized in fiscal year 2019. This restoration of the cuts from the previous year which was a deposit of \$20 Million collected during fiscal year 2017 and used to fund projects in fiscal year 2018.

Availability of Grant Funds

The most sought-after form of funding for water and sewer infrastructure projects is grants. This is also the least available of fund types, due mainly to the fact that the largest funding programs were established as revolving funds and therefore rely on loan repayments to replenish and sustain themselves. The amount of grant funding available actually serves to make many projects viable and hence proceed to construction. A review of the Infrastructure Fund's project financing closings between FY2015 and FY2017 reflects that approximately 79% of those projects had Council grants in their funding

packages. Had those grants not been available it is quite possible that most of the projects funded through the Infrastructure Fund over the last three years would not have proceeded to construction, or would have proceeded with reduced project scopes.

User Rates

Water and sewer user rates continue to rise in order to meet current utility expense increases and evolving regulatory requirements. Accordingly, the income available for utilities to service the debt associated with borrowing public funds is less. Every utility undertaking a capital project must determine the maximum user rates it is willing to accept in order to construct a project. Although this amount is different for each utility (and project), it will be capped as a direct function of the rates its customers are willing to pay and/or what the management of the utility is willing to accept. As rates approach these "unacceptable" levels, project sponsors (utilities) may be less willing to take on additional debt (loans) and may only undertake capital projects if grant funds are available. Another probable outcome is that, in the absence of grant funds, utilities will undertake only those projects with a high urgency, such as those designed to ensure compliance with regulatory standards and consent decrees versus projects that are not being mandated by law or regulation, such as extensions of service to unserved areas.

PHYSICAL AND GEOGRAPHIC CONCERNS

West Virginia's geography and geology mandate relatively higher costs for underground infrastructure, such as water and sewer projects. This impact exists not only for new construction, but for replacement and rehabilitation projects as well. Real estate to construct new treatment facilities can be difficult and expensive to acquire, which sometimes creates added controversy over plant and pump/lift station siting proposals.

Typically, existing systems will expand service to more accessible areas first. As time progresses, the remaining unserved areas will be located in more remote, rugged, and less densely populated areas. This results in higher costs, both on a per-customer and per-mile basis.

RECOMMENDATIONS

- The need for infrastructure investments and improvements far outweighs the funds available. Determining which projects receive funding commitments must be based on objective, uniform criteria; among the most important of these criteria is a project's readiness to proceed to construction after receiving its funding commitments. This incentivizes project Sponsors to maintain timely project schedules;
- 2) Ensure that the "utilization rates" of the State's existing available funds are as close to 100% as possible, where "utilization" is defined as a formal, binding commitment of funds. Once the available funds are 100% utilized, then planning for additional procurement of funding, i.e., bond issues, leveraging, etc. should be considered;
- 3) Funding agencies must continue to coordinate their efforts in order to maximize the effectiveness of the State's limited funds available;
- 4) Continue to provide matches for both EPA-SRF funds administered by the State (CWSRF and DWTRF); and
- 5) Ensure that <u>all</u> federal funds are utilized and matched when necessary by State funds. Other than the Infrastructure Fund, all other primary funding agencies for water and sewer projects in the State receive their funds primarily from federal sources. Therefore, almost every funding agency in the State partnering with the Infrastructure Fund can be considered as requiring a "federal match" in order to ensure its projects are fully funded.

REFERENCES

- 1) 2016 Statistical Report, Public Service Commission of West Virginia
- 2) Combined Sewer Overflow (CSO) Long Term Control Plans, WV Department of Environmental Protection
- 3) Consumer Price Index (CPI) for 2015 2017 from the US Bureau of Labor Statistics
- 4) US Census Data for 2010 updated from American Community Survey for 2015

Existing Water Systems and Customers - Private Water Utilities

| | AVG. # |
|--|------------------|
| NAME OF UTILITY | CUSTOMERS |
| Alpine Lake Public Utilities Company | 517 |
| Beckley Water Company | 22,551 |
| Bellwood Community Facilities Imp. Corp. | 43 |
| Cave Road Utilities, LLC | - |
| Cheat Mountain Water Company, Inc. | 606 |
| Fox Glen Utilities, Inc. | 253 |
| Hampton Roads Water System | - |
| Jefferson Utilities, Inc. | 2,585 |
| Lakewood Utilities, Inc. | 172 |
| Mountain View Water System LLC | 54 |
| Newell Company, Inc., The | 651 |
| Otsego Community Water System | 28 |
| P & P Enterprises Utilities, LLC | 2 |
| Springer Run Park, LLC | - |
| Sunny View Acres Water Project | 28 |
| Timberline Four Seasons Utilities, Inc. | 428 |
| Valley Water & Sewer Services, Inc. | 121 |
| West Logan Water Company | 417 |
| West Virginia Resorts LLC | 53 |
| West Virginia-American Water Co. | 167,366 |
| Total | 195,875 |
| TOTAL SERVED BY WATER IN STATE | 652,228 |

Existing Water Systems and Customers - Municipal Water Utilities

| | AVG.# |
|--------------------------|-----------|
| NAME OF UTILITY | CUSTOMERS |
| Albright | 151 |
| Alderson | 711 |
| Anmoore | 476 |
| Athens | 1,777 |
| Beech Bottom | 216 |
| Belington | 942 |
| Belmont | 440 |
| Benwood | 592 |
| Berkeley Springs (Bath) | 1,369 |
| Bethlehem | 1,142 |
| Beverly | 1,072 |
| Bradshaw | 71 |
| Bridgeport | 4,723 |
| Bruceton | 82 |
| Buckhannon | 4,003 |
| Burnsville | 383 |
| Cairo | 163 |
| Camden-on-Gauley | 170 |
| Cameron | 402 |
| Capon Bridge | 323 |
| Carpendale | 373 |
| Cedar Grove | 438 |
| Ceredo | 626 |
| Chapmanville | 922 |
| Charles Town | 5,951 |
| Chester | 1,789 |
| Clarksburg | 8,242 |
| Clay | 562 |
| Davis | 438 |
| Davy | 189 |
| Delbarton | 142 |
| East Bank | 399 |
| Elizabeth | 858 |
| Elkins | 4,021 |
| Fairmont | 13,784 |
| Fairview | 477 |
| Falling Springs (Renick) | 101 |
| Farmington | 208 |
| Follansbee | 3,624 |
| Fort Gay | 631 |
| Franklin | 713 |
| Gary | 479 |

Existing Water Systems and Customers - Municipal Water Utilities

AVG.#

| | AVG. # |
|-----------------|------------------|
| NAME OF UTILITY | CUSTOMERS |
| Gilbert | 743 |
| Glasgow | 355 |
| Glen Dale | 1,108 |
| Glenville | 872 |
| Grafton | 2,657 |
| Grant Town | - |
| Grantsville | 308 |
| Harman | 95 |
| Harpers Ferry | 812 |
| Harrisville | 1,137 |
| Hartford | 272 |
| Hillsboro | 105 |
| Hurricane | 3,574 |
| Huttonsville | 77 |
| Junior | 382 |
| Kenova | 3,838 |
| Kermit | 533 |
| Keyser | 2,399 |
| Keystone | 80 |
| Kingwood | 1,425 |
| Lester | 266 |
| Lewisburg | 4,892 |
| Logan | 1,991 |
| Lumberport | 684 |
| Man | 446 |
| Mannington | 935 |
| Marlinton | 740 |
| Martinsburg | 6,504 |
| Mason | 762 |
| Masontown | 921 |
| Matewan | 897 |
| Matoaka | 125 |
| McMechen | 839 |
| Meadow Bridge | 253 |
| Middlebourne | 516 |
| Mill Creek | 389 |
| Milton | 2,519 |
| Monongah | 1,413 |
| Moorefield | 1,182 |
| Morgantown | 25,748 |
| Moundsville | 4,499 |
| Mount Hope | 677 |
| New Cumberland | 591 |
| | |

Existing Water Systems and Customers - Municipal Water Utilities

AVG.#

| | AVG.# |
|------------------|------------------|
| NAME OF UTILITY | <u>CUSTOMERS</u> |
| New Haven | 682 |
| New Martinsville | 2,701 |
| Newburg | 430 |
| Northfork | 163 |
| Nutter Fort | 835 |
| Oceana | 1,204 |
| Paden City | 1,263 |
| Parkersburg | 16,053 |
| Parsons | 781 |
| Paw Paw | 231 |
| Pax | - |
| Pennsboro | 626 |
| Petersburg | 1,259 |
| Philippi | 1,596 |
| Piedmont | 289 |
| Pine Grove | - |
| Pineville | 1,145 |
| Pocahontas | 450 |
| Point Pleasant | 2,436 |
| Rainelle | 908 |
| Ravenswood | 1,886 |
| Reedy | 179 |
| Rhodell | - |
| Richwood | 1,066 |
| Ridgeley | 317 |
| Ripley | 2,456 |
| Rivesville | 685 |
| Romney | 884 |
| Ronceverte | 1,038 |
| Rowlesburg | 240 |
| Rupert | 489 |
| Salem | 799 |
| Shepherdstown | 1,684 |
| Shinnston | 2,306 |
| Sistersville | 952 |
| Spencer | 2,150 |
| St. Albans | 6,133 |
| St. Marys | 1,094 |
| Star City | 931 |
| Stonewood | 934 |
| Summersville | 2,699 |
| Terra Alta | 774 |
| | |

Existing Water Systems and Customers - Municipal Water Utilities

AVG.#

| NAME OF UTILITY | CUSTOMERS |
|-----------------------|-----------|
| Thomas | 354 |
| Triadelphia | 517 |
| Tunnelton | 418 |
| Union | 387 |
| Valley Grove | 317 |
| Vienna | 5,480 |
| War | - |
| Wardensville | 367 |
| Wayne | 2,393 |
| Weirton | 9,440 |
| Welch | 1,118 |
| Wellsburg | 1,612 |
| West Hamlin | 995 |
| West Milford | 271 |
| West Union | 716 |
| Wheeling | 13,304 |
| White Sulphur Springs | 1,877 |
| Williamson | 1,678 |
| Williamstown | 1,529 |
| Womelsdorff | 109 |
| Worthington | 460 |
| Totals | 248,826 |

Existing Water Systems and Customers - Public Service Districts (Water)

| | AVG. # |
|---|-----------|
| NAME OF UTILITY | CUSTOMERS |
| Adrian Public Service District | 1,946 |
| Armstrong Public Service District | 800 |
| Berkeley County Public Service District | 22,346 |
| Big Bend Public Service District | , |
| Bingamon Public Service District | 545 |
| Birch River Public Service District | 441 |
| Bluewell Public Service District | 2,998 |
| Boone County Public Service District | - |
| Boone-Raleigh Public Service District | _ |
| Branchland-Midkiff Public Service District | 1,176 |
| Brenton Public Service District | -, |
| Brooke County Public Service District | 114 |
| Buffalo Creek Public Service District | 1,121 |
| Central Barbour Public Service District | 1,057 |
| Central Boaz Public Service District | 651 |
| Central Hampshire Public Service District | 1,628 |
| Century Volga Public Service District | 1,021 |
| Cheat View Public Service District | 3,669 |
| Chestnut Ridge Public Service District | 1,152 |
| Clay Battelle Public Service District | 1,644 |
| Clay County Public Service District | 654 |
| Clay-Roane Public Service District | 850 |
| Claywood Park Public Service District | 3,782 |
| Clover Public Service District | 419 |
| Cool Ridge-Flat Top Public Service District | 1,796 |
| Coon's Run Public Service District | 417 |
| Cottageville Public Service District | 1,338 |
| Cowen Public Service District | 1,308 |
| Craigsville Public Service District | 1,930 |
| Crum Public Service District | 1,269 |
| Cumberland P.S.D. c/o WV-American Water | 97 |
| Danese Public Service District | 936 |
| Downs Public Service District | 442 |
| East View Public Service District | 228 |
| Eastern Wyoming Public Service District | 1,381 |
| Elkins Road Public Service District | 1,096 |
| Ellenboro-Lamberton Public Service District | 251 |
| Enlarged Hepzibah Public Service District | 843 |
| Fenwick Mountain Public Service District | 210 |
| Flatwoods-Canoe Run Public Service District | 1,860 |
| Fountain Public Service District | 435 |
| Frankfort Public Service District | 2,750 |

Existing Water Systems and Customers - Public Service Districts (Water)

AVG.#

| NAME OF LITHITY | AVU. # |
|---|-------------------------|
| NAME OF UTILITY Friendly Public Service District (Tyler County) | <u>CUSTOMERS</u> 949 |
| Gap Mills Public Service District | 191 |
| Gauley River Public Service District | 1,359 |
| Gilmer County Public Service District | 1,333 |
| Glen Dale Heights Public Service District | 228 |
| Glen Rogers Public Service District | 95 |
| | 1989 |
| Glen White-Trap Hill Public Service District Grandview-Doolin Public Service District | 1032 |
| | |
| Grant County Public Service District Grant Public Service District | 2,713 903 |
| Greater Harrison County Public Service District | 3,450 |
| Green Valley-Glenwood Public Service District | 4,364 |
| Greenbrier County Public Service District No. 2 | 4,304 |
| Hammond Public Service District No. 2 | 916 |
| Hamrick Public Service District | 729 |
| Hardy County Public Service District | 1,985 |
| Hodgesville Public Service District | 1,203 |
| Hundred-Littleton Public Service District | 1,203 |
| Huttonsville Public Service District | |
| | 1,238 |
| Ice's Run Route 250 Public Service District Jane Lew Public Service District Water Division | 473 |
| | 649 |
| Jefferson County Public Service District | 113 |
| Jumping Branch-Nimitz Public Service District | - |
| Justice Public Service District | 227 |
| Kanawha Falls Public Service District | 985 |
| Kopperston Public Service District | - |
| Lashmeet Public Service District | 2.007 |
| Lavalette Public Service District | 3,807 |
| Leadsville Public Service District | 643 |
| Lincoln Public Service District | 2,210 |
| Little Creek Public Service District | 902 |
| Logan County Public Service District | 10,042 |
| Lubeck Public Service District | 4,536 |
| Mannington Public Service District | 556 |
| Marianna Public Service District | 11 |
| Marshall County Public Service District No. 1 | 1,311 |
| Marshall County Public Service District No. 2 | 655 |
| Marshall County Public Service District No. 3 | 1,170 |
| Marshall County Public Service District No. 4 | 1,706 |
| Mason County Public Service District | 5,976 |
| McDowell County Public Service District | 3,064 |
| Midland Public Service District | 1,434 |
| Mineral Wells Public Service District | 2,547 |

Existing Water Systems and Customers - Public Service Districts (Water)

AVG.#

| | AVG. # |
|---|------------------|
| NAME OF UTILITY | <u>CUSTOMERS</u> |
| Mingo County Public Service District | 4,119 |
| Monumental Public Service District | 868 |
| Mountain Top Public Service District | 887 |
| Mt. Zion Public Service District | 516 |
| Nettie-Leivasy Public Service District | 1,375 |
| New Haven Public Service District | - |
| Northern Jackson County Public Service District | 1081 |
| Norton-Harding-Jimtown Public Service District | 689 |
| Oakland Public Service District | 935 |
| Oakvale Road Public Service District | - |
| Ohio County Public Service District | 4,243 |
| Page-Kincaid Public Service District | 650 |
| Paw Paw Rt 19 Public Service District | 538 |
| Pendleton County Public Service District | 742 |
| Pleasant Hill Public Service District | 669 |
| Pleasant Valley Public Service District | 947 |
| Pleasants County Public Service District | 229 |
| Pocahontas County Public Service District | 272 |
| Preston County Public Service District No. 1 | 1,461 |
| Preston County Public Service District No. 2 | 1,405 |
| Preston County Public Service District No. 4 | 1459 |
| Putnam Public Service District | 9,589 |
| Queen Shoals Public Service District | - |
| Raleigh County Public Service District | 4,653 |
| Ravencliff-McGraws-Saulsville Public Service Dist | 1,269 |
| Red Sulphur Public Service District | 2,207 |
| River Road Public Service District | 781 |
| Salt Rock Public Service District | - |
| Short Line Public Service District | 1,169 |
| Southern Jackson County Public Service District | 2,441 |
| Southwestern Water District | 2,040 |
| Sugar Creek Public Service District | 585 |
| Summit Park Public Service District | 424 |
| Sun Valley Public Service District | 1,217 |
| Taylor County Public Service District | 1,081 |
| Tomlinson Public Service District | 923 |
| Union-Williams Public Service District | 3,212 |
| Valley Falls Public Service District | 1,659 |
| Walton Public Service District | 826 |
| Washington Pike Public Service District | 1,382 |
| Wetzel County Public Service District No. 1 | 709 |
| Wilderness Public Service District | 2,038 |
| Totals | 194,995 |
| · | _5 .,555 |

Existing Water Systems and Customers - Water Associations and Authorities

| | AVG. # |
|---|------------------|
| NAME OF UTILITY | CUSTOMERS |
| Arthurdale Water Association | 109 |
| Clinton Water Association, Inc. | 3,602 |
| Coal Mountain Water Company | 41 |
| Coolfont Mountainside Association, Inc. | 120 |
| Crumpler Community Water Association, Inc. | 85 |
| Denver Water Association | 142 |
| Gallipolis Ferry Water Association, Inc. | 433 |
| Garwood Water Maintenance Association | - |
| Green Camp Community Water Association | 19 |
| Hardy County Rural Development Authority | 80 |
| Herndon Water Works | - |
| Hiawatha Water Association | - |
| Hughes River Water Board | 3 |
| Hutchinson Community Water Association | 151 |
| J-2-Y-35 Water Association, Inc. | 513 |
| Lincoln Heights Improvement Association | 85 |
| Little Laurel Run Improvement Association | 35 |
| Ministers Run Water Association | 147 |
| Montana Water Association | 301 |
| Mount Hope Water Association | 1,202 |
| Mountain View Water Association | 873 |
| New Creek Water Association, Inc. | 1,374 |
| O'Toole Water Association, Inc. | - |
| Pleasants County Development Authority | - |
| Route 16 Water Corporation | 584 |
| Sugar Lane Water Association Inc | 79 |
| Tri-County Water Association | 1,087 |
| Webster County Economic Development Authority | 208 |
| Whitmer Water Association, Inc. | - |
| Windmill Gap Water Association | - |
| Woods Homeowners Association, Inc., The | 1,259 |
| Total | 12,532 |

Existing Sewer Systems and Customers - Private Sewer Utilities

| | AVG. # |
|--|------------------|
| NAME OF UTILITY | <u>CUSTOMERS</u> |
| Alpine Lake Public Utilities Company | 516 |
| Big Bend Sewer Association, Inc. | - |
| Butcher Bend Lagoon Maintenance Association | 19 |
| Carney Park Landowners/Homeowners Association | 59 |
| C & J Utilities, LLC | 32 |
| Cacapon South Utility Association, Inc. | 84 |
| Cave Road Utilities, LLC | - |
| Chestnut Point Property Owners Association, Inc. | 75 |
| Circle Drive Estates Association | 41 |
| Coolfont Mountainside Association Inc. | 120 |
| Eastwood Systems, Inc. | - |
| Fountainhead Homeowners Association | - |
| Graham Meadows Service District, Inc. | 55 |
| Green Acres Utilities | 109 |
| Hidden Valley Treatment, Inc. | 84 |
| Holiday Park Leisure Acres Association, Inc. | - |
| HPSD, LLC | 211 |
| Hubbard Heights Subdivision H.O. Association | - |
| Lakewood Utilities, Inc. | 172 |
| Linmont Sanitation System, Inc. | 81 |
| Little Kanawha Service Company | 58 |
| Moorefield/Hardy County Wastewater Authority | 3 |
| Mountainaire Village | - |
| Newell Company, Inc., The | 449 |
| Ogden Sewer Company | 82 |
| P & P Enterprises Utilities LLC | 36 |
| Sewage Systems, Inc. | - |
| Shenandoah Junction Public Sewer, Inc. | 166 |
| Spring Valley Home Owners Association, Inc. | - |
| Springer Run Park, LLC | - |
| Timberline Four Seasons Utilities, Inc. | 743 |
| Vitech Enterprises, Inc. | - |
| Wastewater Management, Inc. | 50 |
| West Virginia Resorts, LLC | 54 |
| West Virginia-American Water Company | 1,056 |
| Williamsburg Sewer System, Inc. | 209 |
| Wood County Parks and Recreation Commission | 17 |
| Total | 4,581 |

Existing Sewer Systems and Customers - Municipal Sewer Utilities

| NAME OF UTILITY Albright Alderson Anmoore Ansted Ansted Ansted Ansted Barboursville Barboursville Beckley Belington Belle Belle Benwood Bethany Bethlehem Bethlehem Bethlehem Bluefield Bridgeport Bridgeport Buckhannon Buffalo Burnsville Burnsville Burnsville Burnsville Bornon Bornon Bornon Bornon Bornon Bornon Bornon Buefalo Burnsville Bur | | A\/C # |
|--|------------------|----------|
| Albright 101 Alderson 523 Anmoore 408 Ansted 607 Athens 451 Barboursville 1,886 Barrackville 655 Beckley 7,416 Belington 825 Belle 579 Belmont 402 Benwood 565 Bethany 216 Bethlehem 1,111 Beverly 807 Blacksville 103 Bluefield 7,775 Bradshaw 129 Bridgeport 4,692 Buckhannon 3,104 Buffalo 502 Burnsville 214 Cairo 155 Camden-on-Gauley 103 Cameron 396 Capon Bridge 323 Carpendale 371 Cedar Grove 381 Ceredo 777 Chapmanville 815 Charles Town 3,244 Charleston 23,008 Chesapeake 649 Chester 1,692 | NAME OF LITHITY | AVG. # |
| Alderson 523 Anmoore 408 Ansted 607 Athens 451 Barboursville 1,886 Barrackville 655 Beckley 7,416 Belington 825 Belle 579 Belmont 402 Benwood 565 Bethany 216 Bethlehem 1,111 Beverly 807 Blacksville 103 Bluefield 7,775 Bradshaw 129 Bridgeport 4,692 Buckhannon 3,104 Buffalo 502 Burnsville 214 Cairo 155 Camden-on-Gauley 103 Capon Bridge 323 Carpendale 371 Cedar Grove 381 Ceredo 777 Chapmanville 815 Charles Town 3,244 Charleston 23,008 Chester 1,692 | · | <u> </u> |
| Ansted 607 Athens 451 Barboursville 1,886 Barrackville 655 Beckley 7,416 Belington 825 Belle 579 Belmont 402 Benwood 565 Bethany 216 Bethlehem 1,111 Beverly 807 Blacksville 103 Bluefield 7,775 Bradshaw 129 Bridgeport 4,692 Buckhannon 3,104 Buffalo 502 Burnsville 214 Cairo 155 Camden-on-Gauley 103 Capon Bridge 323 Carpendale 371 Cedar Grove 381 Ceredo 777 Chapmanville 815 Charles Town 3,244 Charleston 23,008 Chesapeake 649 Chester 1,692 | _ | |
| Ansted 607 Athens 451 Barboursville 1,886 Barrackville 655 Beckley 7,416 Belington 825 Belle 579 Belle 579 Belmont 402 Benwood 565 Bethany 216 Bethlehem 1,111 Beverly 807 Blacksville 103 Bluefield 7,775 Bradshaw 129 Bridgeport 4,692 Buckhannon 3,104 Buffalo 502 Burnsville 214 Cairo 155 Camden-on-Gauley 103 Capon Bridge 323 Carpendale 371 Cedar Grove 381 Ceredo 777 Chapmanville 815 Charleston 23,008 Chesapeake 649 Chester 1,692 | | |
| Athens 451 Barboursville 1,886 Barrackville 655 Beckley 7,416 Belington 825 Belle 579 Belle 579 Belmont 402 Benwood 565 Bethany 216 Bethlehem 1,111 Beverly 807 Blacksville 103 Bluefield 7,775 Bradshaw 129 Bridgeport 4,692 Buckhannon 3,104 Buffalo 502 Burnsville 214 Cairo 155 Camden-on-Gauley 103 Cameron 396 Capon Bridge 323 Carpendale 371 Cedar Grove 381 Ceredo 777 Chapmanville 815 Charles Town 3,244 Charleston 23,008 Chesapeake 649 Chester 1,692 | | |
| Barboursville 1,886 Barrackville 655 Beckley 7,416 Belington 825 Belle 579 Belmont 402 Benwood 565 Bethany 216 Bethlehem 1,111 Beverly 807 Blacksville 103 Bluefield 7,775 Bradshaw 129 Bridgeport 4,692 Buckhannon 3,104 Buffalo 502 Burnsville 214 Cairo 155 Camden-on-Gauley 103 Cameron 396 Capon Bridge 323 Carpendale 371 Cedar Grove 381 Ceredo 777 Chapmanville 815 Charles Town 3,244 Charleston 23,008 Chesapeake 649 Chester 1,692 | | |
| Barrackville 655 Beckley 7,416 Belington 825 Belle 579 Belmont 402 Benwood 565 Bethany 216 Bethlehem 1,111 Beverly 807 Blacksville 103 Bluefield 7,775 Bradshaw 129 Bridgeport 4,692 Buckhannon 3,104 Buffalo 502 Burnsville 214 Cairo 155 Camden-on-Gauley 103 Cameron 396 Capon Bridge 323 Carpendale 371 Cedar Grove 381 Ceredo 777 Chapmanville 815 Charles Town 3,244 Chesapeake 649 Chester 1,692 | | |
| Beckley 7,416 Belington 825 Belle 579 Belmont 402 Benwood 565 Bethany 216 Bethlehem 1,111 Beverly 807 Blacksville 103 Bluefield 7,775 Bradshaw 129 Bridgeport 4,692 Buckhannon 3,104 Buffalo 502 Burnsville 214 Cairo 155 Camden-on-Gauley 103 Cameron 396 Capon Bridge 323 Carpendale 371 Cedar Grove 381 Ceredo 777 Chapmanville 815 Charles Town 3,244 Charleston 23,008 Chesapeake 649 Chester 1,692 | | • |
| Bellington 825 Belle 579 Belmont 402 Benwood 565 Bethany 216 Bethlehem 1,111 Beverly 807 Blacksville 103 Bluefield 7,775 Bradshaw 129 Bridgeport 4,692 Buckhannon 3,104 Buffalo 502 Burnsville 214 Cairo 155 Camden-on-Gauley 103 Cameron 396 Capon Bridge 323 Carpendale 371 Cedar Grove 381 Ceredo 777 Chapmanville 815 Charles Town 3,244 Charleston 23,008 Chesapeake 649 Chester 1,692 | | |
| Belle 579 Belmont 402 Benwood 565 Bethany 216 Bethlehem 1,111 Beverly 807 Blacksville 103 Bluefield 7,775 Bradshaw 129 Bridgeport 4,692 Buckhannon 3,104 Buffalo 502 Burnsville 214 Cairo 155 Camden-on-Gauley 103 Cameron 396 Capon Bridge 323 Carpendale 371 Cedar Grove 381 Ceredo 777 Chapmanville 815 Charles Town 3,244 Charleston 23,008 Chesapeake 649 Chester 1,692 | • | • |
| Belmont 402 Benwood 565 Bethany 216 Bethlehem 1,111 Beverly 807 Blacksville 103 Bluefield 7,775 Bradshaw 129 Bridgeport 4,692 Buckhannon 3,104 Buffalo 502 Burnsville 214 Cairo 155 Camden-on-Gauley 103 Cameron 396 Capon Bridge 323 Carpendale 371 Cedar Grove 381 Ceredo 777 Chapmanville 815 Charles Town 3,244 Charleston 23,008 Chesapeake 649 Chester 1,692 | • | |
| Benwood 565 Bethany 216 Bethlehem 1,111 Beverly 807 Blacksville 103 Bluefield 7,775 Bradshaw 129 Bridgeport 4,692 Buckhannon 3,104 Buffalo 502 Burnsville 214 Cairo 155 Camden-on-Gauley 103 Cameron 396 Capon Bridge 323 Carpendale 371 Cedar Grove 381 Ceredo 777 Chapmanville 815 Charles Town 3,244 Charleston 23,008 Chesapeake 649 Chester 1,692 | | |
| Bethany 216 Bethlehem 1,111 Beverly 807 Blacksville 103 Bluefield 7,775 Bradshaw 129 Bridgeport 4,692 Buckhannon 3,104 Buffalo 502 Burnsville 214 Cairo 155 Camden-on-Gauley 103 Cameron 396 Capon Bridge 323 Carpendale 371 Cedar Grove 381 Ceredo 777 Chapmanville 815 Charles Town 3,244 Charleston 23,008 Chesapeake 649 Chester 1,692 | Belmont | |
| Bethlehem 1,111 Beverly 807 Blacksville 103 Bluefield 7,775 Bradshaw 129 Bridgeport 4,692 Buckhannon 3,104 Buffalo 502 Burnsville 214 Cairo 155 Camden-on-Gauley 103 Cameron 396 Capon Bridge 323 Carpendale 371 Cedar Grove 381 Ceredo 777 Chapmanville 815 Charles Town 3,244 Charleston 23,008 Chesapeake 649 Chester 1,692 | | |
| Beverly 807 Blacksville 103 Bluefield 7,775 Bradshaw 129 Bridgeport 4,692 Buckhannon 3,104 Buffalo 502 Burnsville 214 Cairo 155 Camden-on-Gauley 103 Cameron 396 Capon Bridge 323 Carpendale 371 Cedar Grove 381 Ceredo 777 Chapmanville 815 Charles Town 3,244 Charleston 23,008 Chesapeake 649 Chester 1,692 | · | |
| Blacksville 103 Bluefield 7,775 Bradshaw 129 Bridgeport 4,692 Buckhannon 3,104 Buffalo 502 Burnsville 214 Cairo 155 Camden-on-Gauley 103 Cameron 396 Capon Bridge 323 Carpendale 371 Cedar Grove 381 Ceredo 777 Chapmanville 815 Charles Town 3,244 Charleston 23,008 Chesapeake 649 Chester 1,692 | Bethlehem | 1,111 |
| Bluefield 7,775 Bradshaw 129 Bridgeport 4,692 Buckhannon 3,104 Buffalo 502 Burnsville 214 Cairo 155 Camden-on-Gauley 103 Cameron 396 Capon Bridge 323 Carpendale 371 Cedar Grove 381 Ceredo 777 Chapmanville 815 Charles Town 3,244 Charleston 23,008 Chesapeake 649 Chester 1,692 | • | 807 |
| Bradshaw 129 Bridgeport 4,692 Buckhannon 3,104 Buffalo 502 Burnsville 214 Cairo 155 Camden-on-Gauley 103 Cameron 396 Capon Bridge 323 Carpendale 371 Cedar Grove 381 Ceredo 777 Chapmanville 815 Charles Town 3,244 Charleston 23,008 Chesapeake 649 Chester 1,692 | Blacksville | 103 |
| Bridgeport 4,692 Buckhannon 3,104 Buffalo 502 Burnsville 214 Cairo 155 Camden-on-Gauley 103 Cameron 396 Capon Bridge 323 Carpendale 371 Cedar Grove 381 Ceredo 777 Chapmanville 815 Charles Town 3,244 Charleston 23,008 Chesapeake 649 Chester 1,692 | Bluefield | 7,775 |
| Buckhannon 3,104 Buffalo 502 Burnsville 214 Cairo 155 Camden-on-Gauley 103 Cameron 396 Capon Bridge 323 Carpendale 371 Cedar Grove 381 Ceredo 777 Chapmanville 815 Charles Town 3,244 Charleston 23,008 Chesapeake 649 Chester 1,692 | Bradshaw | 129 |
| Buffalo 502 Burnsville 214 Cairo 155 Camden-on-Gauley 103 Cameron 396 Capon Bridge 323 Carpendale 371 Cedar Grove 381 Ceredo 777 Chapmanville 815 Charles Town 3,244 Charleston 23,008 Chesapeake 649 Chester 1,692 | Bridgeport | 4,692 |
| Burnsville 214 Cairo 155 Camden-on-Gauley 103 Cameron 396 Capon Bridge 323 Carpendale 371 Cedar Grove 381 Ceredo 777 Chapmanville 815 Charles Town 3,244 Charleston 23,008 Chesapeake 649 Chester 1,692 | Buckhannon | 3,104 |
| Cairo 155 Camden-on-Gauley 103 Cameron 396 Capon Bridge 323 Carpendale 371 Cedar Grove 381 Ceredo 777 Chapmanville 815 Charles Town 3,244 Charleston 23,008 Chesapeake 649 Chester 1,692 | Buffalo | 502 |
| Camden-on-Gauley 103 Cameron 396 Capon Bridge 323 Carpendale 371 Cedar Grove 381 Ceredo 777 Chapmanville 815 Charles Town 3,244 Charleston 23,008 Chesapeake 649 Chester 1,692 | Burnsville | 214 |
| Cameron 396 Capon Bridge 323 Carpendale 371 Cedar Grove 381 Ceredo 777 Chapmanville 815 Charles Town 3,244 Charleston 23,008 Chesapeake 649 Chester 1,692 | Cairo | 155 |
| Capon Bridge 323 Carpendale 371 Cedar Grove 381 Ceredo 777 Chapmanville 815 Charles Town 3,244 Charleston 23,008 Chesapeake 649 Chester 1,692 | Camden-on-Gauley | 103 |
| Carpendale 371 Cedar Grove 381 Ceredo 777 Chapmanville 815 Charles Town 3,244 Charleston 23,008 Chesapeake 649 Chester 1,692 | Cameron | 396 |
| Cedar Grove 381 Ceredo 777 Chapmanville 815 Charles Town 3,244 Charleston 23,008 Chesapeake 649 Chester 1,692 | Capon Bridge | 323 |
| Ceredo 777 Chapmanville 815 Charles Town 3,244 Charleston 23,008 Chesapeake 649 Chester 1,692 | Carpendale | 371 |
| Chapmanville815Charles Town3,244Charleston23,008Chesapeake649Chester1,692 | Cedar Grove | 381 |
| Charles Town3,244Charleston23,008Chesapeake649Chester1,692 | Ceredo | 777 |
| Charleston23,008Chesapeake649Chester1,692 | Chapmanville | 815 |
| Chesapeake 649 Chester 1,692 | Charles Town | 3,244 |
| Chester 1,692 | Charleston | 23,008 |
| , | Chesapeake | 649 |
| Clarksburg 7,492 | Chester | 1,692 |
| _ | Clarksburg | 7,492 |
| Clay 303 | Clay | 303 |
| Clearview 253 | • | 253 |
| Davis 429 | | |
| Delbarton 429 | | |
| Dunbar 3,453 | | |
| Durbin 168 | | |
| East Bank 403 | | |

Existing Sewer Systems and Customers - Municipal Sewer Utilities

AVG.#

| | AVG. # |
|-----------------|------------------|
| NAME OF UTILITY | CUSTOMERS |
| Eleanor | 969 |
| Elizabeth | 432 |
| Elkins | 3,063 |
| Fairmont | 9,694 |
| Farmington | 252 |
| Flemington | 269 |
| Follansbee | 2,421 |
| Fort Gay | 313 |
| Franklin | 457 |
| Gary | 422 |
| Gilbert | 302 |
| Glasgow | 332 |
| Glen Dale | 1,108 |
| Glenville | 738 |
| Grafton | 2,380 |
| Grantsville | 329 |
| Granville | 340 |
| Handley | 111 |
| Harman | 78 |
| Harrisville | 822 |
| Hartford | 198 |
| Hillsboro | 160 |
| Hinton | 1,246 |
| Huntington | 19,103 |
| Hurricane | 1,964 |
| Junior | 196 |
| Kenova | 1,327 |
| Kermit | 138 |
| Keyser | 2,278 |
| Kingwood | 1,596 |
| Leon | 117 |
| Logan | 850 |
| Lumberport | 598 |
| Man | 387 |
| Mannington | 937 |
| Marlinton | 591 |
| Marmet | 647 |
| Martinsburg | 5,997 |
| Mason | 473 |
| Masontown | 515 |
| Matewan | 836 |
| Matoaka | 125 |
| McMechen | 823 |
| | |

Existing Sewer Systems and Customers - Municipal Sewer Utilities

AVG.#

| | AVG. # |
|------------------|------------------|
| NAME OF UTILITY | CUSTOMERS |
| Meadow Bridge | 335 |
| Middlebourne | 555 |
| Milton | 1,895 |
| Monongah | 573 |
| Montgomery | 677 |
| Moorefield | 1,351 |
| Morgantown | 22,124 |
| Moundsville | 4,439 |
| Mount Hope | 523 |
| Mullens | - |
| New Cumberland | 455 |
| New Haven | 675 |
| New Martinsville | 2,578 |
| Newburg | 152 |
| Nitro | 4,459 |
| North Hills | 314 |
| Nutter Fort | 835 |
| Oak Hill | 3,303 |
| Oceana | 1,582 |
| Paden City | 1,200 |
| Parkersburg | 15,396 |
| Parsons | 694 |
| Paw Paw | 231 |
| Pax | 159 |
| Pennsboro | 544 |
| Petersburg | 1,261 |
| Philippi | 1,258 |
| Piedmont | 289 |
| Pine Grove | - |
| Poca | 682 |
| Point Pleasant | 2,108 |
| Pratt | 226 |
| Princeton | 4,025 |
| Ranson | 1,705 |
| Ravenswood | 1,810 |
| Reedsville | 321 |
| Reedy | 98 |
| Richwood | 878 |
| Ridgeley | 316 |
| Ripley | 2,259 |
| Romney | 1042 |
| Ronceverte | 805 |
| Rowlesburg | 232 |
| | |

Existing Sewer Systems and Customers - Municipal Sewer Utilities

AVG.#

| | AVG. # |
|-----------------------|------------------|
| NAME OF UTILITY | CUSTOMERS |
| Salem | 742 |
| Sand Fork | 58 |
| Shepherdstown | 1,105 |
| Shinnston | 1,039 |
| Sistersville | 952 |
| Smithers | 380 |
| Sophia | 832 |
| South Charleston | 7,080 |
| Spencer | 1,559 |
| St. Albans | 6,147 |
| St. Marys | 913 |
| Star City | 915 |
| Stonewood | 922 |
| Summersville | 1,662 |
| Terra Alta | 657 |
| Thomas | 304 |
| Triadelphia | 497 |
| Tunnelton | 131 |
| Union | 302 |
| Vienna | 5,472 |
| War | 458 |
| Wardensville | 351 |
| Wayne | 761 |
| Weirton | 9,282 |
| Welch | 867 |
| Wellsburg | 1,460 |
| West Hamlin | 396 |
| West Union | 556 |
| Weston | 2,707 |
| Westover | 2,249 |
| Wheeling | 12,578 |
| White Sulphur Springs | 1,680 |
| Willamson | 1,281 |
| Williamstown | 1,416 |
| Winfield | 1,110 |
| Worthington | 312 |
| Total | 297,346 |

Existing Sewer Systems and Customers - Public Service Districts (Sewer)

| Arbuckle Public Service District 578 Armstrong Public Service District 784 Berkeley County Public Service Sewer District 21,928 Big Bend Public Service District 1,258 Boone County Public Service District 1,833 Boone-Raleigh Public Service District 1,833 Boone-Raleigh Public Service District 1,833 Boone-Raleigh Public Service District 1,592 Bramwell Public Service District 1,592 Bramwell Public Service District 1,592 Bramwell Public Service District 1,009 Brooke County Public Service District 1,009 Brooke County Public Service District 1,248 Canaan Valley Public Service District 1,248 Center Public Service District 1,248 Center Public Service District 1,248 Central Boaz Public Service District 1,746 Central Boaz Public Service District 1,766 Claywood Park Public Service District 1,700 Colfax Public Service District 1,700 Colfax Public Service District 1,700 Colfax Public Service District 1,700 Cottageville Public Service District 1,700 Craigsville Public Service District 1,700 Craigsville Public Service District 1,204 Deckers Creek Public Service District 1,204 Craigsville Public Service District 1,204 Elk Valley Public Service District 1,866 East View Public Service District 1,866 East View Public Service District 1,866 Ellenboro-Lamberton Public Service District 1,866 Ellenboro-Lamberton Public Service District 1,266 Greater Harrison County Public Service District 1,266 Greater Harrison County Public Service District 1,360 Greater St. Albans Public Service District 1,360 Greater St. Albans Public Service District 1,360 Greater St. Albans Public Service District 1,370 Greater Paw Paw Sanitary District 1,370 Green Valley-Glenwood Public Service District 1,370 Green Valley-Glenwood Public Service District 1,371 Hampin Public Service District 1,371 Hampin Public Service District 1,371 Harpers Ferry-Bolivic Public Service District 1,372 | | AVG.# |
|--|---|------------------|
| Armstrong Public Service District Berkeley County Public Service Sewer District Big Bend Public Service District Bluewell Public Service District Boone County Public Service District Boone Raleigh Public Service District Boone-Raleigh Public Service District Bradley Bradley Public Service District Bradley Bra | NAME OF UTILITY | CUSTOMERS |
| Berkeley County Public Service District Big Bend Public Service District Bluewell Public Service District Boone County Public Service District Boone-Raleigh Public Service District Bradley Public Service District Center Public Service District Center Public Service District Center Public Service District Central Boaz Public Service District Central Boaz Public Service District Cottageville Public Service District Colfax Public Service District Colfax Public Service District Colfax Public Service District Crab Orchard-MacArthur Public Service District Crab Orchard-MacArthur Public Service District Crab Orchard-MacArthur Public Service District Culloden Public Service District Culloden Public Service District Deckers Creek Public Service District 1,204 Deckers Creek Public Service District Blk Valley Public Service District 1,866 East View Public Service District 1,866 East View Public Service District 1,866 Enlarged Hepzibah Public Service District 1,866 Enlarged Hepzibah Public Service District 1,286 Frankfort Public Service District 1,286 Greater Harrison County Public Service District 2,104 Greater Paw Paw Sanitary District 3,290 Greater St. Albans Public Service District 4,382 Greenbrier Public Service District 4,384 Hamnick Public Service District 4,584 Hamnick Public Service District 4,585 Hancock County Public Service District 4,587 | Arbuckle Public Service District | 575 |
| Big Bend Public Service District 1,258 Boone County Public Service District 1,833 Boone-Raleigh Public Service District 1,833 Boone-Raleigh Public Service District 1,592 Bradley Public Service District 1,592 Bramwell Public Service District 2,000 Brooke County Public Service District 1,209 Brooke County Public Service District 1,248 Canaan Valley Public Service District 1,248 Canaan Valley Public Service District 1,248 Center Public Service District 4,46 Center Public Service District 4,433 Central Boaz Public Service District 4,433 Central Hampshire Public Service District 7,700 Colfax Public Service District 1,700 Colfax Public Service District 2,28 Cowen Public Service District 2,28 Cowen Public Service District 3,73 Crab Orchard-MacArthur Public Service District 4,192 Craigsville Public Service District 9,76 Culloden Public Service District 1,204 Deckers Creek Public Service District 1,866 East View Public Service District 1,866 East View Public Service District 1,286 Ellenboro-Lamberton Public Service District 1,286 Frankfort Public Service District 1,286 Frankfort Public Service District 1,286 Frankfort Public Service District 1,286 Greater Marion Public Service District 1,286 Greater Marion Public Service District 1,286 Greater Marion Public Service District 1,286 Greater Paw Paw Sanitary District 1,2104 Green Valley-Glenwood Public Service District 1,360 Greater St. Albans Public Service District 1,360 Greenbrier Public Service District 1,379 Greenbrier Public Service District 1,379 Hannine Public Service District 1,379 Harpers Ferry-Bolivar Public Service District 1,379 | Armstrong Public Service District | 784 |
| Bluewell Public Service District 1,833 Boone County Public Service District 1,833 Boone-Raleigh Public Service District | Berkeley County Public Service Sewer District | 21,928 |
| Boone County Public Service District Bradley Public Service District Bradley Public Service District Bradley Public Service District Brooke County Public Service District Buffalo Creek Public Service District Canaan Valley Public Service District Center Public Service District Center Public Service District Center Public Service District Central Boaz Public Service District Central Hampshire Public Service District Colfax Public Service District Colfax Public Service District Colfax Public Service District Colfax Public Service District Cowen Public Service District Crab Orchard-MacArthur Public Service District Crajsville Public Service District Craigsville Public Service District Craigsville Public Service District Culloden Public Service District 1,204 Deckers Creek Public Service District 1,204 Deckers Creek Public Service District 1,204 Deckers Creek Public Service District 1,206 East View Public Service District 1,206 Elk Valley Public Service District 1,206 Ellarged Hepzibah Public Service District 1,206 Ellarged Hepzibah Public Service District 1,206 Glen Rogers Public Service District 1,206 Glen Rogers Public Service District 1,206 Glen Rogers Public Service District 1,206 Greater Harrison County Public Service District 2,164 Greater Marion Public Service District 2,104 Greater Paw Paw Sanitary District 1,360 Greater Paw Paw Sanitary District 1,360 Greater St. Albans Public Service District 2,398 Greenbrier County Public Service District 3,239 Greenbrier Public Service District 4,382 Greenbrier County Public Service District 7,12 Hamlin Public Service District 7,12 Hamrick Public Service District 7,12 Hamrick Public Service District 7,12 Hamrick Public Service District 7,137 Harpers Ferry-Bolivar Public Service District 7,379 | Big Bend Public Service District | - |
| Boone-Raleigh Public Service District 1,592 Bramwell Public Service District 200 Brooke County Public Service District 1029 Buffalo Creek Public Service District 1,248 Canaan Valley Public Service District 7,46 Center Public Service District 7,46 Center Public Service District 7,46 Central Boaz Public Service District 7,46 Central Hampshire Public Service District 7,700 Colfax P | Bluewell Public Service District | 1,258 |
| Bradley Public Service District 200 Brooke County Public Service District 1029 Buffalo Creek Public Service District 1,248 Canaan Valley Public Service District 1,248 Canaan Valley Public Service District 4 Center Public Service District 746 Central Boaz Public Service District 746 Central Boaz Public Service District 746 Central Hampshire Public Service District 766 Claywood Park Public Service District 766 Claywood Park Public Service District 766 Claywood Park Public Service District 757 Cottageville Public Service District 7573 Cottageville Public Service District 7573 Crab Orchard-MacArthur Public Service District 7573 Crab Orchard-MacArthur Public Service District 7573 Culloden Public Service District 7573 Culloden Public Service District 7573 Culloden Public Service District 7573 Est View Public Service District 7574 Elk Valley Public Service District 7575 Frankfort Public Service District 7575 Greater Harrison County Public Service District 7575 Greater Harrison County Public Service District 7575 Greater Paw Paw Sanitary District 7575 Greater Paw Paw Sanitary District 7575 Greenbrier County Public Service District 7575 Greenbrier County Public Service District 7575 Hamlin Public Service District 7572 Hamlin Public Service District 7572 Hamrick Public Service District 7572 Harpers Ferry-Bolivar Public Service District 7572 | Boone County Public Service District | 1,833 |
| Bramwell Public Service District 1029 Buffalo Creek Public Service District 1,248 Canaan Valley Public Service District 1,248 Canaan Valley Public Service District 746 Center Public Service District 746 Centeral Boaz Public Service District 746 Central Boaz Public Service District 746 Central Hampshire Public Service District 746 Claywood Park Public Service District 746 Claywood Park Public Service District 746 Claywood Park Public Service District 7470 Colfax Public Service District 7470 Colfax Public Service District 7470 Cottageville Public Service District 7470 Cottageville Public Service District 7470 Cowen Public Service District 7470 Craig Serville Public Service District 7470 Craigsville Public Service District 7470 Culloden Public Service District 7471 Culloden Public Service District 7471 Culloden Public Service District 7472 Culloden Public Ser | Boone-Raleigh Public Service District | - |
| Brooke County Public Service District 1,248 Canaan Valley Public Service District 4 Center Public Service District 746 Central Boaz Public Service District 746 Central Boaz Public Service District 746 Central Hampshire Public Service District 746 Claywood Park Public Service District 746 Claywood Park Public Service District 746 Claywood Park Public Service District 740 Colfax Public Service District 740 Colfax Public Service District 740 Cottageville Public Service District 7573 Cottageville Public Service District 7573 Crab Orchard-MacArthur Public Service District 7573 Culloden Public Service District 7573 Elk Valley Public Service District 7574 Elk Valley Public Service District 7574 Elk Valley Public Service District 7574 Elk Valley Public Service District 7575 Elatwoods-Canoe Run Public Service District 7575 Frankfort Public Service District 7575 Greater Harrison County Public Service District 7575 Greater Marion Public Service District 7575 Greater St. Albans Public Service District 7575 Greater St. Albans Public Service District 7575 Greenbrier County Public Service District 7575 Hamlin Public Service District 7575 Hamlin Public Service District 7575 Hamrick Public Service District 7575 Harpers Ferry-Bolivar Public Service District 7575 | Bradley Public Service District | 1,592 |
| Buffalo Creek Public Service District 4 Canaan Valley Public Service District 746 Center Public Service District 746 Central Boaz Public Service District 746 Central Boaz Public Service District 746 Central Hampshire Public Service District 766 Claywood Park Public Service District 756 Claywood Park Public Service District 7570 Cotffax Public Service District 7573 Cottageville Public Service District 7573 Cowen Public Service District 7573 Crab Orchard-MacArthur Public Service District 7573 Culloden Public Service District 7576 Culloden Public Service District 7576 Culloden Public Service District 7576 East View Public Service District 7576 East View Public Service District 7576 Elk Valley Public Service District 7576 Ellenboro-Lamberton Public Service District 7576 Ellanged Hepzibah Public Service District 7576 Ellanged Hepzibah Public Service District 7577 Greater Harrison County Public Service District 7577 Greater Harrison County Public Service District 7577 Greater Marion Public Service District 7577 Greater St. Albans Public Service District 7577 Green Valley-Glenwood Public Service District 7577 Hamlin Public Service District 7577 Hamlin Public Service District 7572 Harpers Ferry-Bolivar Public Service District 7572 | Bramwell Public Service District | 200 |
| Canaan Valley Public Service District 746 Center Public Service District 746 Central Boaz Public Service District 483 Central Hampshire Public Service District 766 Claywood Park Public Service District 766 Claywood Park Public Service District 770 Colfax Public Service District 770 Colfax Public Service District 773 Cottageville Public Service District 773 Cowen Public Service District 773 Crab Orchard-MacArthur Public Service District 775 Culloden Public Service District 775 Culloden Public Service District 775 Culloden Public Service District 775 East View Public Service District 775 East View Public Service District 775 Elk Valley Public Service District 775 Elk Valley Public Service District 775 Elanged Hepzibah Public Service District 775 Elanged Hepzibah Public Service District 775 Elanger Harrison County Public Service District 775 Erankfort Public Service District 775 Eraeter Marion Public Service District 775 Eraeter Marion Public Service District 775 Eraeter Paw Paw Sanitary District 775 Erenbrier County Public Service District 775 Erenbrier Public Service District 772 Erenbrier Ferry-Bolivar Public Service District 775 | Brooke County Public Service District | 1029 |
| Center Public Service District 483 Central Boaz Public Service District 766 Claywood Park Public Service District 1,700 Colfax Public Service District 1,700 Colfax Public Service District 1,700 Colfax Public Service District 1,337 Cottageville Public Service District 228 Cowen Public Service District 573 Crab Orchard-MacArthur Public Service District 4,192 Craigsville Public Service District 976 Culloden Public Service District 1,204 Deckers Creek Public Service District 1,204 Deckers Creek Public Service District 1,866 East View Public Service District 1,866 East View Public Service District 1,866 Ellenboro-Lamberton Public Service District 1,666 Enlarged Hepzibah Public Service District 1,286 Frankfort Public Service District 1,286 Frankfort Public Service District 1,286 Glen Rogers Public Service District 1,286 Greater Harrison County Public Service District 2,164 Greater Marion Public Service District 2,164 Greater Paw Paw Sanitary District 1,360 Greater St. Albans Public Service District 2,104 Green Valley-Glenwood Public Service District 4,382 Greenbrier County Public Service District No. 2 2,398 Greenbrier Public Service District No. 1 2,717 Hamlin Public Service District 1,379 Harpers Ferry-Bolivar Public Service District 1,379 Harpers Ferry-Bolivar Public Service District 1,379 | Buffalo Creek Public Service District | 1,248 |
| Central Boaz Public Service District483Central Hampshire Public Service District766Claywood Park Public Service District1,700Colfax Public Service District137Cottageville Public Service District228Cowen Public Service District573Crab Orchard-MacArthur Public Service District4,192Craigsville Public Service District976Culloden Public Service District1,204Deckers Creek Public Service District1,866East View Public Service District349Elk Valley Public Service District4,684Ellenboro-Lamberton Public Service District166Enlarged Hepzibah Public Service District1286Frankfort Public Service District1,286Frankfort Public Service District1,560Glen Rogers Public Service District1,560Glen Rogers Public Service District2,164Greater Harrison County Public Service District2,164Greater Paw Paw Sanitary District1,360Greater St. Albans Public Service District2,104Green Valley-Glenwood Public Service District4,382Greenbrier County Public Service District No. 22,398Greenbrier Public Service District No. 12,717Hamlin Public Service District458Hancock County Public Service District1,379Harpers Ferry-Bolivar Public Service District1,379Harpers Ferry-Bolivar Public Service District1,379 | Canaan Valley Public Service District | 4 |
| Central Hampshire Public Service District766Claywood Park Public Service District1,700Colfax Public Service District137Cottageville Public Service District228Cowen Public Service District573Crab Orchard-MacArthur Public Service District4,192Craigsville Public Service District976Culloden Public Service District1,204Deckers Creek Public Service District1,866East View Public Service District349Elk Valley Public Service District4,684Ellenboro-Lamberton Public Service District166Enlarged Hepzibah Public Service District824Flatwoods-Canoe Run Public Service District1,286Frankfort Public Service District1,560Glen Rogers Public Service District97Greater Harrison County Public Service District2,164Greater Marion Public Service District423Greater Paw Paw Sanitary District1,360Greater St. Albans Public Service District4,382Green Valley-Glenwood Public Service District4,382Greenbrier County Public Service District No. 22,398Greenbrier Public Service District No. 12,717Hamlin Public Service District458Hancock County Public Service District458Hancock County Public Service District1,379Harpers Ferry-Bolivar Public Service District1,379 | Center Public Service District | 746 |
| Claywood Park Public Service District 1,700 Colfax Public Service District 137 Cottageville Public Service District 228 Cowen Public Service District 573 Crab Orchard-MacArthur Public Service District 4,192 Craigsville Public Service District 976 Culloden Public Service District 1,204 Deckers Creek Public Service District 1,866 East View Public Service District 349 Elk Valley Public Service District 349 Elk Valley Public Service District 349 Ellenboro-Lamberton Public Service District 368 Enlarged Hepzibah Public Service District 324 Flatwoods-Canoe Run Public Service District 324 Flatwoods-Canoe Run Public Service District 325 Greater Harrison County Public Service District 326 Greater Harrison County Public Service District 327 Greater Paw Paw Sanitary District 327 Greater Paw Paw Sanitary District 327 Green Valley-Glenwood Public Service District 327 Greenbrier County Public Service District 327 Greenbrier Public Service District 327 Greenbrier Public Service District 327 Freenbrier Ferry-Bolivar Public Service District 327 | Central Boaz Public Service District | 483 |
| Colfax Public Service District 228 Cowen Public Service District 573 Crab Orchard-MacArthur Public Service District 573 Crab Orchard-MacArthur Public Service District 4,192 Craigsville Public Service District 976 Culloden Public Service District 1,204 Deckers Creek Public Service District 1,866 East View Public Service District 349 Elk Valley Public Service District 4,684 Ellenboro-Lamberton Public Service District 166 Enlarged Hepzibah Public Service District 14,286 Frankfort Public Service District 1,286 Frankfort Public Service District 1,286 Frankfort Public Service District 1,560 Glen Rogers Public Service District 1,560 Glen Rogers Public Service District 2,164 Greater Marion Public Service District 2,164 Greater Paw Paw Sanitary District 423 Greater Paw Paw Sanitary District 1,360 Greater St. Albans Public Service District 2,104 Green Valley-Glenwood Public Service District 4,382 Greenbrier County Public Service District No. 2 2,398 Greenbrier Public Service District No. 1 2,717 Hamlin Public Service District 7,12 Hamrick Public Service District 4,389 Harpers Ferry-Bolivar Public Service District 7,379 Harpers Ferry-Bolivar Public Service District 7,379 | Central Hampshire Public Service District | 766 |
| Colfax Public Service District 228 Cowen Public Service District 573 Crab Orchard-MacArthur Public Service District 573 Crab Orchard-MacArthur Public Service District 4,192 Craigsville Public Service District 976 Culloden Public Service District 1,204 Deckers Creek Public Service District 1,866 East View Public Service District 349 Elk Valley Public Service District 4,684 Ellenboro-Lamberton Public Service District 166 Enlarged Hepzibah Public Service District 14,286 Frankfort Public Service District 1,286 Frankfort Public Service District 1,286 Frankfort Public Service District 1,560 Glen Rogers Public Service District 1,560 Glen Rogers Public Service District 2,164 Greater Marion Public Service District 2,164 Greater Paw Paw Sanitary District 423 Greater Paw Paw Sanitary District 1,360 Greater St. Albans Public Service District 2,104 Green Valley-Glenwood Public Service District 4,382 Greenbrier County Public Service District No. 2 2,398 Greenbrier Public Service District No. 1 2,717 Hamlin Public Service District 7,12 Hamrick Public Service District 4,389 Harpers Ferry-Bolivar Public Service District 7,379 Harpers Ferry-Bolivar Public Service District 7,379 | Claywood Park Public Service District | 1,700 |
| Cowen Public Service District Crab Orchard-MacArthur Public Service District 4,192 Craigsville Public Service District 201 Occling Public Service District 201 Deckers Creek Public Service District 349 Elk Valley Public Service District 349 Elk Valley Public Service District 4,684 Ellenboro-Lamberton Public Service District 571 Enlarged Hepzibah Public Service District 572 Flatwoods-Canoe Run Public Service District 573 Frankfort Public Service District 574 Glen Rogers Public Service District 775 Greater Harrison County Public Service District 776 Greater Marion Public Service District 777 Greater Paw Paw Sanitary District 778 Green Valley-Glenwood Public Service District 779 Greenbrier County Public Service District 770 Freenbrier Public Service District 771 Hamlin Public Service District 772 Hamrick Public Service District 773 Harpers Ferry-Bolivar Public Service District 775 | | 137 |
| Crab Orchard-MacArthur Public Service District Craigsville Public Service District Culloden Public Service District Deckers Creek Public Service District 1,204 Deckers Creek Public Service District East View Public Service District 349 Elk Valley Public Service District 4,684 Ellenboro-Lamberton Public Service District 166 Enlarged Hepzibah Public Service District 167 Enlarged Hepzibah Public Service District 1,286 Frankfort Public Service District 1,286 Frankfort Public Service District 1,560 Glen Rogers Public Service District 97 Greater Harrison County Public Service District 2,164 Greater Marion Public Service District 423 Greater Paw Paw Sanitary District 1,360 Greater St. Albans Public Service District 2,104 Green Valley-Glenwood Public Service District 4,382 Greenbrier County Public Service District No. 2 2,398 Greenbrier Public Service District No. 1 4,379 Hamlin Public Service District 4,389 Harpers Ferry-Bolivar Public Service District 752 | Cottageville Public Service District | 228 |
| Craigsville Public Service District Culloden Public Service District Deckers Creek Public Service District 1,204 Deckers Creek Public Service District 1,866 East View Public Service District 349 Elk Valley Public Service District 4,684 Ellenboro-Lamberton Public Service District 166 Enlarged Hepzibah Public Service District 166 Enlarged Hepzibah Public Service District 1,286 Frankfort Public Service District 1,286 Frankfort Public Service District 1,560 Glen Rogers Public Service District 97 Greater Harrison County Public Service District 2,164 Greater Marion Public Service District 423 Greater Paw Paw Sanitary District 423 Greater St. Albans Public Service District 2,104 Green Valley-Glenwood Public Service District 4,382 Greenbrier County Public Service District No. 2 2,398 Greenbrier Public Service District No. 1 2,717 Hamlin Public Service District 458 Hancock County Public Service District 1,379 Harpers Ferry-Bolivar Public Service District 752 | Cowen Public Service District | 573 |
| Culloden Public Service District Deckers Creek Public Service District 1,866 East View Public Service District 349 Elk Valley Public Service District 4,684 Ellenboro-Lamberton Public Service District 166 Enlarged Hepzibah Public Service District 824 Flatwoods-Canoe Run Public Service District 1,286 Frankfort Public Service District 1,560 Glen Rogers Public Service District 97 Greater Harrison County Public Service District 2,164 Greater Marion Public Service District 423 Greater Paw Paw Sanitary District 3,360 Greater St. Albans Public Service District 2,104 Green Valley-Glenwood Public Service District 4,382 Greenbrier County Public Service District No. 2 2,398 Greenbrier Public Service District No. 1 2,717 Hamlin Public Service District 712 Hamrick Public Service District 4,389 Harpers Ferry-Bolivar Public Service District 7,379 Harpers Ferry-Bolivar Public Service District 7,379 | Crab Orchard-MacArthur Public Service District | 4,192 |
| Deckers Creek Public Service District East View Public Service District 349 Elk Valley Public Service District 4,684 Ellenboro-Lamberton Public Service District Enlarged Hepzibah Public Service District Enlarged Hepzibah Public Service District Frankfort Public Service District Glen Rogers Public Service District Greater Harrison County Public Service District Greater Marion Public Service District Greater Paw Paw Sanitary District Greater St. Albans Public Service District Green Valley-Glenwood Public Service District Greenbrier County Public Service District Greenbrier Public Service District Hamlin Public Service District Hamrick Public Service District Hanrock County Public Service District 712 Hanrock County Public Service District 752 | Craigsville Public Service District | 976 |
| East View Public Service District Elk Valley Public Service District 4,684 Ellenboro-Lamberton Public Service District Enlarged Hepzibah Public Service District Elatwoods-Canoe Run Public Service District Frankfort Public Service District Glen Rogers Public Service District Greater Harrison County Public Service District Greater Marion Public Service District Greater Paw Paw Sanitary District Greater St. Albans Public Service District Green Valley-Glenwood Public Service District Green Valley-Glenwood Public Service District Greenbrier County Public Service District A,382 Greenbrier Public Service District No. 2 2,398 Greenbrier Public Service District Hamlin Public Service District 712 Hamlin Public Service District 458 Hancock County Public Service District 752 | Culloden Public Service District | 1,204 |
| Elk Valley Public Service District Ellenboro-Lamberton Public Service District Enlarged Hepzibah Public Service District Ellatwoods-Canoe Run Public Service District Frankfort Public Service District Glen Rogers Public Service District Greater Harrison County Public Service District Greater Marion Public Service District Greater Paw Paw Sanitary District Greater St. Albans Public Service District Green Valley-Glenwood Public Service District Green Valley-Glenwood Public Service District Greenbrier County Public Service District A,382 Greenbrier Public Service District No. 2 2,398 Greenbrier Public Service District No. 1 Hamlin Public Service District 458 Hancock County Public Service District 752 | Deckers Creek Public Service District | 1,866 |
| Ellenboro-Lamberton Public Service District Enlarged Hepzibah Public Service District 824 Flatwoods-Canoe Run Public Service District 1,286 Frankfort Public Service District 1,560 Glen Rogers Public Service District 97 Greater Harrison County Public Service District 2,164 Greater Marion Public Service District 423 Greater Paw Paw Sanitary District 1,360 Greater St. Albans Public Service District 2,104 Green Valley-Glenwood Public Service District 4,382 Greenbrier County Public Service District 4,382 Greenbrier Public Service District No. 2 2,398 Greenbrier Public Service District No. 1 1,717 Hamlin Public Service District 458 Hancock County Public Service District 752 | East View Public Service District | 349 |
| Enlarged Hepzibah Public Service District Flatwoods-Canoe Run Public Service District 1,286 Frankfort Public Service District 1,560 Glen Rogers Public Service District 97 Greater Harrison County Public Service District 2,164 Greater Marion Public Service District 423 Greater Paw Paw Sanitary District 1,360 Greater St. Albans Public Service District 2,104 Green Valley-Glenwood Public Service District 4,382 Greenbrier County Public Service District No. 2 2,398 Greenbrier Public Service District No. 1 Hamlin Public Service District 458 Hancock County Public Service District 752 | Elk Valley Public Service District | 4,684 |
| Flatwoods-Canoe Run Public Service District Frankfort Public Service District Glen Rogers Public Service District Greater Harrison County Public Service District Greater Marion Public Service District Greater Paw Paw Sanitary District Greater St. Albans Public Service District Green Valley-Glenwood Public Service District Green Valley-Glenwood Public Service District Greenbrier County Public Service District No. 2 Greenbrier Public Service District No. 1 Hamlin Public Service District Hamrick Public Service District Hancock County Public Service District Harpers Ferry-Bolivar Public Service District 752 | Ellenboro-Lamberton Public Service District | 166 |
| Frankfort Public Service District 1,560 Glen Rogers Public Service District 97 Greater Harrison County Public Service District 2,164 Greater Marion Public Service District 423 Greater Paw Paw Sanitary District 1,360 Greater St. Albans Public Service District 2,104 Green Valley-Glenwood Public Service District 4,382 Greenbrier County Public Service District 4,382 Greenbrier Public Service District No. 2 2,398 Greenbrier Public Service District No. 1 2,717 Hamlin Public Service District 458 Hancock County Public Service District 1,379 Harpers Ferry-Bolivar Public Service District 752 | Enlarged Hepzibah Public Service District | 824 |
| Glen Rogers Public Service District 97 Greater Harrison County Public Service District 2,164 Greater Marion Public Service District 423 Greater Paw Paw Sanitary District 1,360 Greater St. Albans Public Service District 2,104 Green Valley-Glenwood Public Service District 4,382 Greenbrier County Public Service District No. 2 2,398 Greenbrier Public Service District No. 1 2,717 Hamlin Public Service District 712 Hamrick Public Service District 458 Hancock County Public Service District 752 Harpers Ferry-Bolivar Public Service District 752 | Flatwoods-Canoe Run Public Service District | 1,286 |
| Greater Harrison County Public Service District2,164Greater Marion Public Service District423Greater Paw Paw Sanitary District1,360Greater St. Albans Public Service District2,104Green Valley-Glenwood Public Service District4,382Greenbrier County Public Service District No. 22,398Greenbrier Public Service District No. 12,717Hamlin Public Service District712Hamrick Public Service District458Hancock County Public Service District1,379Harpers Ferry-Bolivar Public Service District752 | Frankfort Public Service District | 1,560 |
| Greater Marion Public Service District 423 Greater Paw Paw Sanitary District 1,360 Greater St. Albans Public Service District 2,104 Green Valley-Glenwood Public Service District 4,382 Greenbrier County Public Service District No. 2 2,398 Greenbrier Public Service District No. 1 2,717 Hamlin Public Service District 712 Hamrick Public Service District 458 Hancock County Public Service District 1,379 Harpers Ferry-Bolivar Public Service District 752 | Glen Rogers Public Service District | 97 |
| Greater Paw Paw Sanitary District 1,360 Greater St. Albans Public Service District 2,104 Green Valley-Glenwood Public Service District 4,382 Greenbrier County Public Service District No. 2 2,398 Greenbrier Public Service District No. 1 2,717 Hamlin Public Service District 712 Hamrick Public Service District 458 Hancock County Public Service District 1,379 Harpers Ferry-Bolivar Public Service District 752 | Greater Harrison County Public Service District | 2,164 |
| Greater St. Albans Public Service District 2,104 Green Valley-Glenwood Public Service District 4,382 Greenbrier County Public Service District No. 2 2,398 Greenbrier Public Service District No. 1 2,717 Hamlin Public Service District 712 Hamrick Public Service District 458 Hancock County Public Service District 1,379 Harpers Ferry-Bolivar Public Service District 752 | Greater Marion Public Service District | 423 |
| Green Valley-Glenwood Public Service District 4,382 Greenbrier County Public Service District No. 2 2,398 Greenbrier Public Service District No. 1 2,717 Hamlin Public Service District 712 Hamrick Public Service District 458 Hancock County Public Service District 1,379 Harpers Ferry-Bolivar Public Service District 752 | Greater Paw Paw Sanitary District | 1,360 |
| Greenbrier County Public Service District No. 2 Greenbrier Public Service District No. 1 Hamlin Public Service District Hamrick Public Service District Hancock County Public Service District Harpers Ferry-Bolivar Public Service District 752 | Greater St. Albans Public Service District | 2,104 |
| Greenbrier Public Service District No. 12,717Hamlin Public Service District712Hamrick Public Service District458Hancock County Public Service District1,379Harpers Ferry-Bolivar Public Service District752 | Green Valley-Glenwood Public Service District | |
| Hamlin Public Service District712Hamrick Public Service District458Hancock County Public Service District1,379Harpers Ferry-Bolivar Public Service District752 | Greenbrier County Public Service District No. 2 | 2,398 |
| Hamrick Public Service District458Hancock County Public Service District1,379Harpers Ferry-Bolivar Public Service District752 | Greenbrier Public Service District No. 1 | 2,717 |
| Hancock County Public Service District1,379Harpers Ferry-Bolivar Public Service District752 | Hamlin Public Service District | |
| Hancock County Public Service District1,379Harpers Ferry-Bolivar Public Service District752 | Hamrick Public Service District | 458 |
| Harpers Ferry-Bolivar Public Service District 752 | | 1,379 |
| · | • | |
| nulluled-Littleton Public Service District 205 | Hundred-Littleton Public Service District | 205 |

Existing Sewer Systems and Customers - Public Service Districts (Sewer)

| | AVG. # |
|---|------------------|
| NAME OF UTILITY | CUSTOMERS |
| Huttonsville Public Service District | 945 |
| Jane Lew Public Service District | 898 |
| Jefferson County Public Service District | 2,565 |
| Kanawha Falls Public Service District | 1,064 |
| Kanawha Public Service District fka Chelyan PSD | 2,614 |
| Kingmill Valley Public Service District | 1,390 |
| Lake Floyd Public Service District | 153 |
| Leadsville Public Service District | 780 |
| Logan County Public Service District | 1,589 |
| Lubeck Public Service District | 2,362 |
| Malden Public Service District | 3,282 |
| Marshall County Sewerage District | 726 |
| Mason County Public Service District | 271 |
| Meadow Creek Public Service District | - |
| Midland Public Service District | 884 |
| Mineral Wells Public Service District | 1,785 |
| Mingo County Public Service District | 419 |
| Mountain Top Public Service District | 299 |
| Mt. Zion Public Service District | 132 |
| New Creek Public Service District | 1,062 |
| North Beckley Public Service District | 3,881 |
| Northern Jackson County Public Service District | 121 |
| Northern Wayne County Public Service District | 2,774 |
| Norton-Harding-Jimtown Public Service District | 689 |
| Oakvale Road Public Service District | 1,765 |
| Ohio County Public Service District | 2,043 |
| Page-Kincaid Public Service District | 405 |
| Pea Ridge Public Service District | 4,797 |
| Pleasant View Public Service District | 159 |
| Pocahontas County Public Service District | 596 |
| Preston County Public Service District | 244 |
| Prichard Public Service District | 196 |
| Putnam Public Service District | 10,668 |
| Red Sulphur Public Service District | 1,224 |
| Salt Rock Public Service District | 1,588 |
| Shady Spring Public Service District | 4,303 |
| Sissonville Public Service District | 1,637 |
| Southern Jackson County Public Service District | 770 |
| Spring Valley Public Service District | 508 |
| Summit Park Public Service District | 566 |
| Sun Valley Public Service District | 727 |
| Tennerton Public Service District | 885 |
| Tyler County Public Service District (Friendly PSD) | 290 |
| | |

Existing Sewer Systems and Customers - Public Service Districts (Sewer)

| | AVG. # |
|---|------------------|
| NAME OF UTILITY | CUSTOMERS |
| Union Public Service District | 5,315 |
| Union Williams Public Service District | 1,810 |
| Warm Springs Public Service District | 1,424 |
| Webster Springs Public Service District | 641 |
| West Dunbar Public Service District | 724 |
| White Oak Public Service District | 956 |
| Whitehall Public Service District | 1,254 |
| Totals | 147,522 |

Appendix E

Infrastructure Funding Agencies in West Virginia

WV Bureau for Public Health (WVBPH)

Programs: Drinking Water Treatment Revolving Fund (DWTRF)

Contact: Robert Decrease, 304-356-4301

WV Development Office (WVDO)

Programs: Appalachian Regional Commission Grant (ARC)

Small Cities Block Grant (SCBG)

Contact: Todd Goddard, 304-558-2234

WV Department of Environmental Protection (WVDEP)

Programs: Abandonded Mine Lands (AML)

Clean Water State Revolving Fund (CWSRF)

Contact: CWSRF - Kathy Emery, 304-926-0440

AML - Roger Earle, 304-926-0499

WV Infrastructure and Jobs Development Council (WVIJDC)

Contact: Wayne Morgan, 304-414-6501

US Department of Agriculture - Rural Utilities Service (USDA-RUS)

Contact: Janna Lowery, 304-284-4886

US Army Corps of Engineers (USACOE)

Programs: COE 571 and COE 340

Contact: Sharanna Romans, 304-399-5025

WV Water Development Authority (WVWDA)

Contact: Marie Prezioso, 304-414-6500

| | Water | | | | | Sewer | | | | |
|------------|----------|--------|------|-------|----------|--------|------|-------|--|--|
| County | Unserved | Served | % no | % yes | Unserved | Served | % no | % yes | | |
| Barbour | 2992 | 7220 | 29% | 71% | 7559 | 2653 | 74% | 26% | | |
| Berkeley | 7915 | 18192 | 30% | 70% | 13273 | 12834 | 51% | 49% | | |
| Boone | 1708 | 10590 | 14% | 86% | 9664 | 2634 | 79% | 21% | | |
| Braxton | 10994 | 5392 | 67% | 33% | 14290 | 2096 | 87% | 13% | | |
| Brooke | 9065 | 10912 | 45% | 55% | 7774 | 12203 | 39% | 61% | | |
| Cabell | 1373 | 19890 | 6% | 94% | 5766 | 15497 | 27% | 73% | | |
| Calhoun | 1635 | 1087 | 60% | 40% | 2212 | 510 | 81% | 19% | | |
| Clay | 4940 | 4828 | 51% | 49% | 9284 | 484 | 95% | 5% | | |
| Doddridge | 7373 | 1732 | 81% | 19% | 8396 | 709 | 92% | 8% | | |
| Fayette | 5118 | 18446 | 22% | 78% | 11213 | 12351 | 48% | 52% | | |
| Gilmer | 2661 | 1541 | 63% | 37% | 3550 | 652 | 84% | 16% | | |
| Grant | 3712 | 4169 | 47% | 53% | 6008 | 1873 | 76% | 24% | | |
| Greenbrier | 12874 | 9166 | 58% | 42% | 11327 | 10713 | 51% | 49% | | |
| Hampshire | 12398 | 3221 | 79% | 21% | 12883 | 2736 | 82% | 18% | | |
| Hancock | 4766 | 10471 | 31% | 69% | 2998 | 12239 | 20% | 80% | | |
| Hardy | 2638 | 2220 | 54% | 46% | 3869 | 989 | 80% | 20% | | |
| Harrison | 6446 | 31440 | 17% | 83% | 15841 | 22045 | 42% | 58% | | |
| Jackson | 9399 | 6476 | 59% | 41% | 10225 | 5650 | 64% | 36% | | |
| Jefferson | 19330 | 6149 | 76% | 24% | 15398 | 10081 | 60% | 40% | | |
| Kanawha | 15156 | 83909 | 15% | 85% | 19141 | 79924 | 19% | 81% | | |
| Lewis | 8169 | 12319 | 40% | 60% | 14370 | 6118 | 70% | 30% | | |
| Lincoln | 5616 | 6038 | 48% | 52% | 10178 | 1476 | 87% | 13% | | |
| Logan | 4608 | 20372 | 18% | 82% | 20284 | 4696 | 81% | 19% | | |
| Marion | 6526 | 31227 | 17% | 83% | 15073 | 22680 | 40% | 60% | | |
| Marshall | 4620 | 3938 | 54% | 46% | 4195 | 4363 | 49% | 51% | | |
| Mason | 2542 | 4927 | 34% | 66% | 5146 | 2323 | 69% | 31% | | |
| McDowell | 7017 | 13764 | 34% | 66% | 17044 | 3737 | 82% | 18% | | |
| Mercer | 7218 | 26625 | 21% | 79% | 15054 | 18789 | 44% | 56% | | |
| Mineral | 4672 | 2495 | 65% | 35% | 2931 | 4236 | 41% | 59% | | |
| Mingo | 3856 | 15374 | 20% | 80% | 13082 | 6148 | 68% | 32% | | |
| Monongalia | 5175 | 46231 | 10% | 90% | 14900 | 36506 | 29% | 71% | | |
| Monroe | 1848 | 1847 | 50% | 50% | 2764 | 931 | 75% | 25% | | |
| Morgan | 13901 | 2595 | 84% | 16% | 13543 | 2953 | 82% | 18% | | |
| Nicholas | 4967 | 12088 | 29% | 71% | 12569 | 4486 | 74% | 26% | | |
| Ohio | 4591 | 14586 | 24% | 76% | 5331 | 13846 | 28% | 72% | | |
| Pendleton | 4174 | 1762 | 70% | 30% | 5486 | 450 | 92% | 8% | | |
| Pleasants | 3519 | 2851 | 55% | 45% | 4754 | 1616 | 75% | 25% | | |
| Pocahontas | 6668 | 1653 | 80% | 20% | 6920 | 1401 | 83% | 17% | | |
| Preston | 3968 | 4663 | 46% | 54% | 6336 | 2295 | | 27% | | |
| Putnam | 3939 | 12498 | 24% | 76% | 6612 | 9825 | 40% | 60% | | |
| Raleigh | 8605 | 13812 | 38% | 62% | 9711 | 12706 | | | | |
| Randolph | 11432 | 5497 | 68% | 32% | 10230 | 6699 | | 40% | | |
| Ritchie | 9233 | 3189 | 74% | 26% | 9609 | 2813 | 77% | 23% | | |
| Roane | 9990 | 6601 | 60% | 40% | 14560 | 2031 | 88% | 12% | | |
| Summers | 10791 | 5943 | 64% | 36% | 14635 | 2099 | 87% | 13% | | |
| Taylor | 947 | 3176 | 23% | 77% | 2884 | 1239 | | | | |
| Tucker | 5991 | 2495 | 71% | 29% | 5881 | 2605 | | | | |
| Tyler | 2521 | 3454 | 42% | 58% | 3401 | 2574 | | | | |
| Upshur | 3603 | 10225 | 26% | 74% | 9095 | 4733 | | 34% | | |
| Wayne | 10633 | 20670 | 34% | 66% | 21825 | 9478 | | 30% | | |
| Webster | 2154 | 2312 | 48% | 52% | 2782 | 1684 | | | | |
| Wetzel | 5604 | 3950 | 59% | 41% | 4720 | 4834 | | 51% | | |
| Wirt | 3492 | 3086 | 53% | 47% | 5380 | 1198 | | 18% | | |
| Wood | 23471 | 19241 | 55% | 45% | 9183 | 33529 | | | | |
| Wyoming | 7588 | 12187 | 38% | 62% | 14997 | 4778 | 76% | 24% | | |

Appendix F
Served/Unserved Structures (by Congressional District)

| | | Wa | ter | | | Sev | wer | |
|------------------------|----------|--------|------|-------|----------|--------|------|-------|
| Congressional District | Unserved | Served | % no | % yes | Unserved | Served | % no | % yes |
| 1 | 117853 | 208981 | 36% | 64% | 141324 | 185510 | 43% | 57% |
| 2 | 143105 | 186057 | 43% | 57% | 179851 | 149311 | 55% | 45% |
| 3 | 105184 | 215704 | 33% | 67% | 204961 | 115927 | 64% | 36% |

| | | Wa | ter | | | Sev | wer | |
|--------|----------|--------|------|-------|----------|--------|------|-------|
| Region | Unserved | Served | % no | % yes | Unserved | Served | % no | % yes |
| 1 | 43067 | 74178 | 37% | 63% | 74205 | 43040 | 63% | 37% |
| 2 | 28628 | 87271 | 25% | 75% | 76281 | 39618 | 66% | 34% |
| 3 | 25743 | 111825 | 19% | 81% | 44701 | 92867 | 32% | 68% |
| 4 | 31781 | 43665 | 42% | 58% | 44811 | 30635 | 59% | 41% |
| 5 | 63260 | 45985 | 58% | 42% | 59324 | 49921 | 54% | 46% |
| 6 | 30435 | 118469 | 20% | 80% | 63430 | 85474 | 43% | 57% |
| 7 | 45842 | 44689 | 51% | 49% | 64975 | 25556 | 72% | 28% |
| 8 | 27594 | 13867 | 67% | 33% | 31177 | 10284 | 75% | 25% |
| 9 | 41146 | 26936 | 60% | 40% | 42214 | 25868 | 62% | 38% |
| 10 | 14815 | 22474 | 40% | 60% | 14246 | 23043 | 38% | 62% |
| 11 | 13831 | 21383 | 39% | 61% | 10772 | 24442 | 31% | 69% |

| | | Wa | ter | | Sewer | | | |
|-----------------|----------|--------|------|-------|----------|--------|------|-------|
| Senate District | Unserved | Served | % no | % yes | Unserved | Served | % no | % yes |
| 1 | 19138 | 36674 | 34% | 66% | 16980 | 38832 | 30% | 70% |
| 2 | 37150 | 31326 | 54% | 46% | 45328 | 23148 | 66% | 34% |
| 3 | 34649 | 27946 | 55% | 45% | 26032 | 36563 | 42% | 58% |
| 4 | 20615 | 22509 | 48% | 52% | 26288 | 16836 | 61% | 39% |
| 5 | 3965 | 26896 | 13% | 87% | 8642 | 22219 | 28% | 72% |
| 6 | 20578 | 56568 | 27% | 73% | 48971 | 28175 | 63% | 37% |
| 7 | 17027 | 48157 | 26% | 74% | 53376 | 11808 | 82% | 18% |
| 8 | 5163 | 48863 | 10% | 90% | 12616 | 41410 | 23% | 77% |
| 9 | 16631 | 27695 | 38% | 62% | 26585 | 17741 | 60% | 40% |
| 10 | 30632 | 35398 | 46% | 54% | 39940 | 26090 | 60% | 40% |
| 11 | 35390 | 36474 | 49% | 51% | 50947 | 20917 | 71% | 29% |
| 12 | 30970 | 54740 | 36% | 64% | 54453 | 31257 | 64% | 36% |
| 13 | 5443 | 58487 | 9% | 91% | 14876 | 49054 | 23% | 77% |
| 14 | 21361 | 26619 | 45% | 55% | 33461 | 14519 | 70% | 30% |
| 15 | 35119 | 15283 | 70% | 30% | 39662 | 10740 | 79% | 21% |
| 16 | 21200 | 16823 | 56% | 44% | 17871 | 20152 | 47% | 53% |
| 17 | 11073 | 40276 | 22% | 78% | 10062 | 41287 | 20% | 80% |

| | | Wa | ter | | Sewer | | | |
|-------------------|---------------|----------------|------------|------------|----------------|--------------|------------|------------|
| Delegate District | Unserved | Served | % no | % yes | Unserved | Served | % no | % yes |
| 1 | 6733 | 15170 | 31% | 69% | 4024 | 17879 | 18% | 82% |
| 2 | 7300 | 6514 | 53% | 47% | 7251 | 6563 | 52% | 48% |
| 3 | 3295 | 13741 | 19% | 81% | 3748 | 13288 | 22% | 78% |
| 5 | 5714 5918 | 4482 4265 | 56% 58% | 44% 42% | 5275 5349 | 4921 4834 | 52% 53% | 48% 47% |
| 6 | 10347 | 5184 | 67% | 33% | 12250 | 3281 | 79% | 21% |
| 7 | 12285 | 6039 | 67% | 33% | 13895 | 4429 | 76% | 24% |
| 8 | 4221 | 5204 | 45% | 55% | 3563 | 5862 | 38% | 62% |
| 9 | 4683 | 8221 | 36% | 64% | 8614 | 4290 | 67% | 33% |
| 10 | 18060 | 8902 | 67% | 33% | 2387 | 24575 | 9% | 91% |
| 11 | 10960 | 7667 | 59% | 41% | 16444 | 2183 | 88% | 12% |
| 12 | 6929 | 2915 | 70% | 30% | 6488 | 3356 | 66% | 34% |
| 13 | 3101 | 9923 | 24% | 76% | 7883 | 5141 | 61% | 39% |
| 14 | 2277 | 2676 | 46% | 54% | 3392 | 1561 | 68% | 32% |
| 15 | 623 | 3663 | 15% | 85% | 366 | 3920 | 9% | 91% |
| 16 | 1547 | 10930 | 12% | 88% | 3395 | 9082 | 27% | 73% |
| 17 | 326 | 9217 | 3% | 97% | 1965 | 7578 | 21% | 79% |
| 18 | 276 | 3759 | 7% | 93% | 1934 | 2101 | 48% | 52% |
| 19 20 | 10529 1387 | 17978 10194 | 37% 12% | 63% 88% | 21499 8164 | 7008 3417 | 75% 70% | 25% 30% |
| 21 | 8702 | 8017 | 52% | 48% | 13921 | 2798 | 83% | 17% |
| 22 | 8187 | 8997 | 48% | 52% | 13834 | 3350 | 81% | 19% |
| 23 | 966 | 7860 | 11% | 89% | 6201 | 2625 | 70% | 30% |
| 24 | 3854 | 19888 | 16% | 84% | 19816 | 3926 | 83% | 17% |
| 25 | 5363 | 10132 | 35% | 65% | 12769 | 2726 | 82% | 18% |
| 26 | 3989 | 12492 | 24% | 76% | 12146 | 4335 | 74% | 26% |
| 27 | 6024 | 25242 | 19% | 81% | 12927 | 18339 | 41% | 59% |
| 28 | 13308 | 9865 | 57% | 43% | 17350 | 5823 | 75% | 25% |
| 29 | 1612 | 4020 | 29% | 71% | 3442 | 2190 | 61% | 39% |
| 30 | 3518 | 1639 | 68% | 32% | 182 | 4975 | 4% | 96% |
| 31 | 925 | 5958 | 13% | 87% | 4036 | 2847 | 59% | 41% |
| 32 | 6476 | 21741 | 23% | 77% | 14027 | 14190 | 50% | 50% |
| 33 34 | 7617 11706 | 6271 6178 | 55% 65% | 45% 35% | 12738 15292 | 1150 2592 | 92% 86% | 8% 14% |
| 35 | 7159 | 26790 | 21% | 79% | 2547 | 31402 | 8% | 92% |
| 36 | 3853 | 23376 | 14% | 86% | 6329 | 20900 | 23% | 77% |
| 37 | 224 | 11181 | 2% | 98% | 10 | 11395 | 0% | 100% |
| 38 | 414 | 8259 | 5% | 95% | 1328 | 7345 | 15% | 85% |
| 39 | 1480 | 8553 | 15% | 85% | 4312 | 5721 | 43% | 57% |
| 40 | 2135 | 7839 | 21% | 79% | 5305 | 4669 | 53% | 47% |
| 41 | 3832 | 8400 | 31% | 69% | 9991 | 2241 | 82% | 18% |
| 42 | 14621 | 9145 | 62% | 38% | 13067 | 10699 | 55% | 45% |
| 43 | 17803 | 7060 | 72% | 28% | 16763 | 8100 | 67% | 33% |
| 44 | 4422 | 6879 | 39% | 61% | 7188 | 4113 | | 36% |
| 45 | 2453 | 7983 | 24% | 76% | 6342 | 4094 | 61% | 39% |
| 46 47 | 8484 5320 | 13383 7480 | 39% 42% | 61% 58% | 15109 9169 | 6758 3631 | 69% 72% | 31% 28% |
| 48 | 6490 | 31712 | 17% | 83% | 16156 | 22046 | 42% | 58% |
| 49 | 1601 | 3889 | 29% | 71% | 4251 | 1239 | 77% | 23% |
| 50 | 6262 | 30728 | 17% | 83% | 14310 | 22680 | 39% | 61% |
| 51 | 4432 | 45430 | 9% | 91% | 13356 | 36506 | 27% | 73% |
| 52 | 1551 | 2987 | 34% | 66% | 3283 | 1255 | 72% | 28% |
| 53 | 6079 | 3913 | 61% | 39% | 7325 | 2667 | 73% | 27% |
| 54 | 6118 | 5030 | 55% | 45% | 8962 | 2186 | 80% | 20% |
| 55 | 5257 | 3672 | 59% | 41% | 7490 | 1439 | 84% | 16% |
| 56 | 3338 | 1478 | 69% | 31% | 1532 | 3284 | 32% | 68% |
| 57 | 7443 | 3386 | 69% | 31% | 7683 | 3146 | 71% | 29% |
| 58 59 | 13280 7434 | 2795 2097 | 83% 78% | 17% 22% | 13043 8211 | 3032 1320 | 81% 86% | 19% 14% |
| 60 | 2251 | 2300 | 78% 49% | 51% | 3669 | 882 | 81% | 14% |
| 61 | 412 | 4414 | 9% | 91% | 417 | 4409 | 9% | 91% |
| 62 | 1727 | 3319 | 34% | 66% | 3979 | 1067 | 79% | 21% |
| 63 | 1084 | 2996 | 27% | 73% | 1251 | 2829 | 31% | 69% |
| 64 | 1059 | 3167 | 25% | 75% | 1749 | 2477 | 41% | 59% |
| 65 | 7548 | 1570 | 83% | 17% | 2769 | 6349 | 30% | 70% |
| 66 | 7166 | 712 | 91% | 9% | 6581 | 1297 | 84% | 16% |
| 67 | 4614 | 3867 | 54% | 46% | 6046 | 2435 | 71% | 29% |